

CC This invention describes the novel use of interferons (IFNs) or DNAs
 CC capable of expressing the interferons and/or antigenic proteins (AP),
 CC antigenic peptides derived from the proteins or DNAs capable of
 CC expressing the antigenic proteins or peptides, in the manufacture of an
 CC agent for induction of antigen-specific T cells. The products of the
 CC invention have virucide and cytostatic activity and can be used for gene
 CC therapy or as inducers of antigen-specific T cells. The action of
 CC interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic
 CC T cell (CTL) by administering an antigenic peptide in an incomplete
 CC Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or
 CC DNA encoding IFNs) are useful in the manufacture of a medicament for
 CC inducing antigen-specific T cells in an individual who has been
 CC administered with AP (or DNA encoding AP) or vice versa. The medicament
 CC is useful for the treatment or prophylaxis of a tumor or a viral
 CC infectious disease

XX Sequence 9 AA;

Query Match 4.6%; Score 50; DB 4; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 91 DFMIQGGDF 99
 Db 1 DFMIQGGDF 9

RESULT 21

AAG68089
 ID AAG68089 standard; peptide; 9 AA.

AC AAG68089;

XX 17-DEC-2001 (first entry)

DE Antitumour peptide cyclophilin B 91-99.

XX Antitumour; cancer; cancer cell recognition; antigenic; CTL; lck; src;
 KW tumour specific cytotoxic T lymphocyte; anticancer; SART-1; SART-3;
 KW cyclophilin B gene; HLA-A2402.

XX Homo sapiens.

XX JP2001245675-A.

XX 11-SEP-2001.

XX 25-DEC-2000; 2000JP-00393047.

XX 28-DEC-1999; 99JP-00374322.

XX (ITOY/) ITO Y.

XX WPI; 2001-610076/70.

XX New peptides for recognizing cancer cells with tumor specific cytotoxic T
 PT lymphocytes and for treating cancer.

XX Claim 8; Page 2; 14pp; Japanese.

XX The present invention describes peptides recognising cancer cells with
 CC tumour specific cytotoxic T lymphocytes (CTL). The peptides recognising
 CC cancer cells with tumour specific CTLs are selected from: (1) peptides of
 CC sequences (AAG68066 to AAG68069); (2) peptides containing the above
 CC mentioned sequences; (3) peptides having 70 % or more of homogeneity with
 CC the above mentioned sequences; and (4) peptides with one or more deleted,
 CC substituted, added or inserted amino acid(s) of the above mentioned
 CC sequences, particularly those having at least 5 amino acids, used for
 CC A2402 binding CTL, especially having at least 5 amino acids, used for
 CC medicine, particularly anticancer agents, derived from antitumour
 CC antigenic peptides of lck, src family, SART-1, SART-3 or cyclophilin B
 CC genes. The antitumour peptides have cytostatic activities. The peptides
 CC are used for the treatment of cancer. The peptides cause activation of

CC CTL in cancer patients. The present sequence represents a peptide from
 CC the present invention
 XX Sequence 9 AA;

Query Match 4.6%; Score 50; DB 4; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 91 DFMIQGGDF 99
 Db 1 DFMIQGGDF 9

RESULT 22

ABG79076
 ID ABG79076 standard; peptide; 9 AA.

XX ABG79076;

XX 15-NOV-2002 (first entry)

XX Human Cyp-B class I HLA widely expressed antigen peptide #2.

XX Cell penetrating peptide; cancer; tumour; melanoma; thymoma; antigen;
 KW lymphoma; sarcoma; lung cancer; non-Hodgkin's lymphoma; leukaemia;
 KW Hodgkin's lymphoma; uterine cancer; cervical cancer; bladder cancer;
 KW kidney cancer; adenocarcinoma; breast cancer; prostate cancer;
 KW ovarian cancer; pancreatic cancer; epitope; vaccine; dendritic cell;
 KW tumour infiltrating lymphocyte; TIL; human leukocyte antigen; HLA;
 KW cytostatic; human.

XX Homo sapiens.

XX WO200264057-A2.

XX 22-AUG-2002.

XX 15-FEB-2002; 2002WO-US005212.

XX 15-FEB-2001; 2001US-0268687P.

XX (BAYU) BAYLOR COLLEGE MEDICINE.

XX Wang R;

XX WPI; 2002-627577/67.

XX Novel composition for treating a disease in an animal, comprises an
 PT immune effector cell and cell penetrating peptide associated with an
 PT antigen or antibody.

XX Disclosure; Page 17; 61pp; English.

XX The invention relates to a composition (I) comprising an immune effector
 CC cell and a cell penetrating peptide (CPP) associated with an antigen or
 CC antibody. Also included are (1) a vaccine comprising (I), CPP associated
 CC with an antigen, and a pharmaceutically acceptable carrier and (2)
 CC preparing a composition for a disease, by providing (I) and CPP
 CC associated with an antigen for disease, and introducing the antigen-
 CC associated CPP to (I), where antigen enters into the cell. The antigens
 CC are, for example, tumour antigen derived epitopes recognised by tumour
 CC infiltrating lymphocytes (TIL) of HLA (human leukocyte antigen) class I
 CC or II. The composition is useful for enhancing immunity in an animal to a
 CC disease, by administering a mature dendritic cell comprising CPP
 CC associated with an antigen to disease, to the animal, such that following
 CC the administration, animal is protected from disease, where the animal
 CC comprises both CD4+ and CD8+ T cells. It is also useful for treating a
 CC disease (e.g. cancer, tumour, melanoma, thymoma, lymphoma, sarcoma, lung
 CC cancer, non-Hodgkin's lymphoma, leukaemia, Hodgkin's lymphoma, uterine
 CC cancer, cervical cancer, bladder cancer, kidney cancer, adenocarcinoma,
 CC breast cancer, prostate cancer, ovarian cancer and pancreatic cancer).
 CC The animal is further subjected to a cancer treatment including surgery,

CC radiation, chemotherapy or gene therapy. The administration of (I),
CC preferably dendritic cell is prior to, subsequent to or concurrent with,
CC the cancer treatment. The present sequence is a tumour antigen derived
CC epitope for inclusion in the composition of the invention
XX
SQ Sequence 9 AA;

Query Match 4.6%; Score 50; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 91 DFMIQGGDF 99
|||||
Db 1 DFMIQGGDF 9

RESULT 23
ABR84374
ID ABR84374 standard; peptide; 9 AA.
XX
AC ABR84374;
XX
DT 06-NOV-2003 (first entry)
XX
DE Human CypB HLA-A24 epitope, SEQ ID NO:24.
XX
KW Antigen specific T-cell; detection; diagnosis; cancer specific T-cell;
KW cancer; tumour; cervical cancer; prostate cancer; cellular immunity;
KW immune therapy; cytostatic; immunostimulant; vaccine; antigenic peptide;
KW human; human leukocyte antigen; HLA-A24 epitope.
XX
OS Homo sapiens.
XX
PN JP2002365286-A.
XX
PD 18-DEC-2002.
XX
PF 18-SEP-2001; 2001JP-00283413.
XX
PR 13-NOV-2000; 2000JP-00345094.
XX
PA (ITOY/) ITO Y.
XX
DR WPI; 2003-508315/48.
XX
PT A detection method of antigen specific T-cells, comprises the use of
PT plural antigenic peptides, useful in semi-quantitative determination of
PT cancer specific T-cell frequencies and for monitoring cellular immunity.
XX
PS Example 8; Page 10; 18pp; Japanese.
XX
CC The invention relates to a method for the detection of antigen specific T
CC -cells in a blood sample involving the use of a plurality of antigenic
CC peptides. The method comprises sampling of peripheral blood monocytes;
CC stimulation of the collected peripheral blood monocytes with antigens
CC without direct use of antigen presenting cells; and detection of T-cells
CC specific to the antigen in the stimulated monocytes. The method is
CC particularly used for the detection of cancer as it can be used in semi-
CC quantitative determination of cancer specific T-cells. It can also be
CC used for cancer vaccine therapy for patients with cervical or prostate
CC cancer. The method can additionally be used to monitor of cellular
CC immunity and cancer immune therapy by detection of specific T-cell
CC frequencies. Sequences ABR84367-ABR84380 represent HLA-A24 (human
CC leukocyte antigen) peptides of human origin used in an example from the
CC invention
XX
SQ Sequence 9 AA;

Query Match 4.6%; Score 50; DB 6; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 91 DFMIQGGDF 99

Db 1 DFMIQGGDF 9
|||||

RESULT 24
ADC17702
ID ADC17702 standard; peptide; 9 AA.
XX
AC ADC17702;
XX
DT 18-DEC-2003 (first entry)
XX
DE Cyclophilin B protein amino acids 91-99.
XX
KW cytostatic; antiallergic; vaccine; allergic reaction suppressor; antigen;
KW allergy; epitope; cancer; immunoglobulin E antibody; desensitization;
KW cyclophilin B.
XX
OS Synthetic.
XX
PN WO2003020306-A1.
XX
PD 13-MAR-2003.
XX
PF 28-AUG-2002; 2002WO-JP008641.
XX
PR 29-AUG-2001; 2001JP-00260046.
PA (ITOY/) ITOH K.
XX
PI Itoh K, Yamada A;
XX
DR WPI; 2003-300831/29.
XX
PT Desensitizers or allergic reaction suppressors containing peptides
PT originating from the same antigenic substances as reaction-inducing
PT substances, useful for preventing or treating type I allergic diseases
PT and in cancer vaccines.
XX
PS Claim 8; SEQ ID NO 2; 49pp; Japanese.
XX
CC The invention relates to allergic reaction suppressors, comprising a
CC peptide which originates from the same antigenic substance as the
CC antigenic substance inducing the (peptide-originated) allergic reaction,
CC and containing an epitope different from the epitope participating in the
CC induction of the allergic reaction and yet does not induce the allergic
CC reaction. The desensitizers or allergic reaction suppressors are useful
CC for treating and preventing type I allergic diseases and in cancer
CC vaccines for preventing or treating cancer. The allergic reaction
CC suppressors are also useful for suppressing an allergic reaction or
CC reducing immunoglobulin E antibody production, and for desensitization to
CC antigens. This sequence represents a peptide used in the invention and
CC corresponds to amino acids 91-99 of the cyclophilin B protein.
XX
SQ Sequence 9 AA;

Query Match 4.6%; Score 50; DB 7; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 91 DFMIQGGDF 99
|||||
Db 1 DFMIQGGDF 9

RESULT 25
AAY69939
ID AAY69939 standard; peptide; 10 AA.
XX
AC AAY69939;
XX
DT 11-APR-2000 (first entry)
XX

DE Human cyclophilin B peptide fragment #19.
XX Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX Homo sapiens.
OS WO9967288-A1.
PN (SUMU) SUMITOMO PHARM CO LTD.
XX (ITOH/) ITOH K.
PD Itoh K, Gomi S;
XX WPI; 2000-116932/10.
DR Tumor antigen peptides derived from cyclophilin B for treatment and
XX diagnosis of tumors.
PT Claim 4; Page 54; 64pp; Japanese.
PS This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX Sequence 10 AA;
SQ Query Match 4.6%; Score 50; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 33 KVTVKVYFDL 42
Db 1 KVTVKVYFDL 10
RESULT 26
AAV69935
ID AAV69935 standard; peptide; 11 AA.
XX AAV69935;
AC 11-APR-2000 (first entry)
XX Human cyclophilin B peptide fragment #15.
DE Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
XX HLA antigen; diagnosis; tumour; therapy.
KW Homo sapiens.
XX WO9967288-A1.
PN 29-DEC-1999.
PD 24-JUN-1999; 99WO-JP003360.
XX 25-JUN-1998; 98JP-00178449.
XX (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX Itoh K, Gomi S;
XX WPI; 2000-116932/10.
XX

DE Human cyclophilin B peptide fragment #19.
XX Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX Homo sapiens.
OS WO9967288-A1.
PN (SUMU) SUMITOMO PHARM CO LTD.
XX (ITOH/) ITOH K.
PD Itoh K, Gomi S;
XX WPI; 2000-116932/10.
DR Tumor antigen peptides derived from cyclophilin B for treatment and
XX diagnosis of tumors.
PT Claim 4; Page 54; 64pp; Japanese.
PS This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX Sequence 10 AA;
SQ Query Match 4.6%; Score 50; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 33 KVTVKVYFDL 42
Db 1 KVTVKVYFDL 10
RESULT 26
AAV69935
ID AAV69935 standard; peptide; 11 AA.
XX AAV69935;
AC 11-APR-2000 (first entry)
XX Human cyclophilin B peptide fragment #15.
DE Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
XX HLA antigen; diagnosis; tumour; therapy.
KW Homo sapiens.
XX WO9967288-A1.
PN 29-DEC-1999.
PD 24-JUN-1999; 99WO-JP003360.
XX 25-JUN-1998; 98JP-00178449.
XX (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX Itoh K, Gomi S;
XX WPI; 2000-116932/10.
XX

PT Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX Claim 4; Page 53; 64pp; Japanese.
XX This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX Sequence 11 AA;
SQ Query Match 4.6%; Score 50; DB 3; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 8 ALIAGSVFFLL 18
Db 1 ALIAGSVFFLL 11
RESULT 27
AAV69938
ID AAV69938 standard; peptide; 11 AA.
XX AAV69938;
AC 11-APR-2000 (first entry)
XX Human cyclophilin B peptide fragment #18.
DE Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX Homo sapiens.
OS WO9967288-A1.
PN 29-DEC-1999.
PD 24-JUN-1999; 99WO-JP003360.
XX 25-JUN-1998; 98JP-00178449.
XX (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX Itoh K, Gomi S;
XX WPI; 2000-116932/10.
XX Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX Claim 4; Page 54; 64pp; Japanese.
XX This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX Sequence 11 AA;
SQ Query Match 4.6%; Score 50; DB 3; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 9 LIAGSVFFLL 19
Db 1 LIAGSVFFLL 11
RESULT 28

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AAy69921
ID AAY69921 standard; peptide; 9 AA.
XX
AC AAY69921;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #1.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
PN WO9967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP003360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMU ) SUMITOMO PHARM CO LTD.
PA (ITOY/) ITOH K.
XX
PI Itoh K, Gomi S;
XX
DR WPI; 2000-116932/10.
XX
PT Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 4; Page 49; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;

Query Match 4.5%; Score 49; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 84 KFHRRVIKDF 92
Db 1 KFHRRVIKDF 9

RESULT 29
AAB46930
ID AAB46930 standard; peptide; 9 AA.
XX
AC AAB46930;
XX
DT 04-MAY-2001 (first entry)
XX
DE Human cyclophilin B derived tumor antigenic peptide SEQ ID 16.
XX
KW Tumor antigenic peptide; interferon; IFN; antigen-specific T cell;
KW virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell;
KW viral infectious disease; cyclophilin B; human.
XX
OS Homo sapiens.
XX
PN EP1074267-A1.
XX
PD 07-FEB-2001.
XX
PF 24-JUL-2000; 2000EP-00306263.
XX
PR 22-JUL-1999; 99JP-00207687.

(SUMU ) SUMITOMO PHARM CO LTD.
Takasu H, Gotoh M, Yamaoka T;
WPI; 2001-193144/20.

Use of antigenic proteins, peptides, interferon or their encoding DNA, in
the manufacture of an agent for the induction of antigen-specific T
cells.

Disclosure; Page 15; 25pp; English.

This invention describes the novel use of interferons (IFNs) or DNAs
capable of expressing the interferons and/or antigenic proteins (AP),
antigenic peptides derived from the proteins or DNAs capable of
expressing the antigenic proteins or peptides, in the manufacture of an
agent for induction of antigen-specific T cells. The products of the
invention have virucide and cytostatic activity and can be used for gene
therapy or as inducers of antigen-specific T cells. The action of
interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic
T cell (CTL) by administering an antigenic peptide in an incomplete
Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or
DNA encoding IFNs) are useful in the manufacture of a medicament for
inducing antigen-specific T cells in an individual who has been
administered with AP (or DNA encoding AP) or vice versa. The medicament
is useful for the treatment or prophylaxis of a tumor or a viral
infectious disease

Sequence 9 AA;

Query Match 4.5%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 84 KFHRRVIKDF 92
Db 1 KFHRRVIKDF 9

RESULT 30
AAG68088
ID AAG68088 standard; peptide; 9 AA.
XX
AC AAG68088;
XX
DT 17-DEC-2001 (first entry)
XX
DE Antitumour peptide cyclophilin B 84-92.
XX
KW Antitumour; cancer; cancer cell recognition; antigenic; CTL; lck; src;
KW tumour specific cytotoxic T lymphocyte; anticancer; SART-1; SART-3;
KW cyclophilin B gene; HLA-A2402.
XX
OS Homo sapiens.
XX
PN JP2001245675-A.
XX
PD 11-SEP-2001.
XX
PF 25-DEC-2000; 2000JP-00393047.
XX
PR 28-DEC-1999; 99JP-00374322.
XX
PA (ITOY/) ITO Y.
XX
DR WPI; 2001-610076/70.
XX
PT New peptides for recognizing cancer cells with tumor specific cytotoxic T
PT lymphocytes and for treating cancer.
XX
PS Claim 8; Page 2; 14pp; Japanese.
XX
```


CC The present invention describes peptides recognising cancer cells with
CC tumour specific cytotoxic T lymphocytes (CTL). The peptides recognising
CC cancer cells with tumour specific CTLs are selected from: (1) peptides of
CC sequences (AAG68066 to AAG68069); (2) peptides containing the above
CC mentioned sequences; (3) peptides having 70 % or more of homogeneity with
CC the above mentioned sequences; and (4) peptides with one or more deleted,
CC substituted, added or inserted amino acid(s) of the above mentioned
CC sequences, particularly those having recognising property due to HLA-
CC A2402 binding CTL, especially having at least 5 amino acids, used for
CC medicine, particularly anticancer agents, derived from antitumour
CC antigenic peptides of lck, src family, SART-1, SART-3 or cyclophilin B
CC genes. The antitumour peptides have cytostatic activities. The peptides
CC are used for the treatment of cancer. The peptides cause activation of
CC CTL in cancer patients. The present sequence represents a peptide from
CC the present invention
XX

SQ Sequence 9 AA;

Query Match 4.5%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 84 KFHRVIKDF 92
|||
Db 1 KFHRVIKDF 9

RESULT 31

ABG79075
ID ABG79075 standard; peptide; 9 AA.

AC ABG79075;

DT 15-NOV-2002 (first entry)

DE Human Cyp-B class I HLA widely expressed antigen peptide #1.

XX Cell penetrating peptide; cancer; tumour; melanoma; thymoma; antigen;
KW lymphoma; sarcoma; lung cancer; non-Hodgkin's lymphoma; leukemia;
KW Hodgkin's lymphoma; uterine cancer; cervical cancer; bladder cancer;
KW kidney cancer; adenocarcinoma; breast cancer; prostate cancer;
KW ovarian cancer; pancreatic cancer; epitope; vaccine; dendritic cell;
KW tumour infiltrating lymphocyte; TIL; human leukocyte antigen; HLA;
KW cytostatic; human.

OS Homo sapiens.

XX WO200264057-A2.

PN 22-AUG-2002.

XX 15-FEB-2002; 2002WO-US005212.

XX 15-FEB-2001; 2001US-0268687P.

XX (BAYU) BAYLOR COLLEGE MEDICINE.

XX Wang R;

PI WPI; 2002-627577/67.

XX Novel composition for treating a disease in an animal, comprises an
PT immune effector cell and cell penetrating peptide associated with an
PT antigen or antibody.

XX Disclosure; Page 17; 61pp; English.

XX The invention relates to a composition (I) comprising an immune effector
CC cell and a cell penetrating peptide (CPP) associated with an antigen or
CC antibody. Also included are (1) a vaccine comprising (I), CPP associated
CC with an antigen, and a pharmaceutically acceptable carrier and (2)
CC preparing a composition for a disease, by providing (I) and CPP
CC associated with an antigen for disease, and introducing the antigen-

CC associated CPP to (I), where antigen enters into the cell. The antigens
CC are, for example, tumour antigen derived epitopes recognised by tumour
CC infiltrating lymphocytes (TIL) of HLA (human leukocyte antigen) class I
CC or II. The composition is useful for enhancing immunity in an animal to a
CC disease, by administering a mature dendritic cell comprising CPP
CC associated with an antigen to disease, to the animal, such that following
CC the administration, animal is protected from disease, where the animal
CC comprises both CD4+ and CD8+ T cells. It is also useful for treating a
CC disease (e.g. cancer, tumour, melanoma, thymoma, lymphoma, sarcoma, lung
CC cancer, non-Hodgkin's lymphoma, leukaemia, Hodgkin's lymphoma, uterine
CC cancer, cervical cancer, bladder cancer, kidney cancer, adenocarcinoma,
CC breast cancer, prostate cancer, ovarian cancer and pancreatic cancer).
CC The animal is further subjected to a cancer treatment including surgery,
CC radiation, chemotherapy or gene therapy. The administration of (I),
CC preferably dendritic cell is prior to, subsequent to or concurrent with,
CC the cancer treatment. The present sequence is a tumour antigen derived
CC epitope for inclusion in the composition of the invention
XX

SQ Sequence 9 AA;

Query Match 4.5%; Score 49; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 84 KFHRVIKDF 92
|||
Db 1 KFHRVIKDF 9

RESULT 32

ABR84373
ID ABR84373 standard; peptide; 9 AA.

XX ABR84373;

DT 06-NOV-2003 (first entry)

DE Human CypB HLA-A24 epitope, SEQ ID NO:23.

XX Antigen specific T-cell; detection; diagnosis; cancer specific T-cell;
KW cancer; tumour; cervical cancer; prostate cancer; cellular immunity;
KW immune therapy; cytostatic; immunostimulant; vaccine; antigenic peptide;
KW human; human leukocyte antigen; HLA-A24 epitope.

OS Homo sapiens.

XX JP2002365286-A.

PN 18-DEC-2002.

XX 18-SEP-2001; 2001JP-00283413.

XX 13-NOV-2000; 2000JP-00345094.

XX (ITOY/) ITO Y.

XX WPI; 2003-508315/48.

PT A detection method of antigen specific T-cells, comprises the use of
PT plural antigenic peptides, useful in semi-quantitative determination of
PT cancer specific T-cell frequencies and for monitoring cellular immunity.

XX Example 8; Page 10; 18pp; Japanese.

XX The invention relates to a method for the detection of antigen specific T
CC -cells in a blood sample involving the use of a plurality of antigenic
CC peptides. The method comprises sampling of peripheral blood monocytes;
CC stimulation of the collected peripheral blood monocytes with antigens
CC without direct use of antigen presenting cells; and detection of T-cells
CC specific to the antigen in the stimulated monocytes. The method is
CC particularly used for the detection of cancer as it can be used in semi-
CC quantitative determination of cancer specific T-cells. It can also be
CC used for cancer vaccine therapy for patients with cervical or prostate

CC cancer. The method can additionally be used to monitor of cellular
CC immunity and cancer immune therapy by detection of specific T-cell
CC frequencies. Sequences ABR84367-ABR84380 represent HLA-A24 (human
CC leukocyte antigen) peptides of human origin used in an example from the
CC invention
XX
SQ Sequence 9 AA;

Query Match 4.5%; Score 49; DB 6; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 84 KFHRIKDF 92
Db 1 KFHRIKDF 9

RESULT 33
ADC17701
ID ADC17701 standard; peptide; 9 AA.
XX
AC ADC17701;
XX
DT 18-DEC-2003 (first entry)
XX
DE Cyclophilin B protein amino acids 84-92.
XX
KW cytostatic; antiallergic; vaccine; allergic reaction suppressor; antigen;
KW allergy; epitope; cancer; immunoglobulin E antibody; desensitization;
KW cyclophilin B.
XX
OS Synthetic.
XX
PN WO2003020306-A1.
XX
PD 13-MAR-2003.
XX
PF 28-AUG-2002; 2002WO-JP008641.
XX
PR 29-AUG-2001; 2001JP-00260046.
XX
PA (ITOHI/) ITOH K.
XX
PI Itoh K, Yamada A;
XX
DR WPI; 2003-300831/29.
XX
PT Desensitizers or allergic reaction suppressors containing peptides
PT originating from the same antigenic substances as reaction-inducing
PT substances, useful for preventing or treating type I allergic diseases
PT and in cancer vaccines.
XX
PS Claim 8; SEQ ID NO 1; 49pp; Japanese.
XX
CC The invention relates to allergic reaction suppressors, comprising a
CC peptide which originates from the same antigenic substance as the
CC antigenic substance inducing the (peptide-originated) allergic reaction,
CC and containing an epitope different from the epitope participating in the
CC induction of the allergic reaction and yet does not induce the allergic
CC reaction. The desensitizers or allergic reaction suppressors are useful
CC for treating and preventing type I allergic diseases and in cancer
CC vaccines for preventing or treating cancer. The allergic reaction
CC suppressors are also useful for suppressing an allergic reaction or
CC reducing immunoglobulin E antibody production, and for desensitization to
CC antigens. This sequence represents a peptide used in the invention and
CC corresponds to amino acids 84-92 of the cyclophilin B protein.
XX
SQ Sequence 9 AA;

Query Match 4.5%; Score 49; DB 7; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 84 KFHRIKDF 92
Db 1 KFHRIKDF 9

RESULT 34
AA69950
ID AA69950 standard; peptide; 8 AA.
XX
AC AA69950;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #30.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
PN WO9967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP003360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMI) SUMITOMO PHARM CO LTD.
PA (ITOHI/) ITOH K.
XX
PI Itoh K, Gomi S;
XX
DR WPI; 2000-116932/10.
XX
PT Tumour antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 4; Page 57; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 8 AA;

Query Match 4.4%; Score 48; DB 3; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 WLDGKHVV 160
Db 1 WLDGKHVV 8

RESULT 35
AAR72947
ID AAR72947 standard; peptide; 14 AA.
XX
AC AAR72947;
XX
DT 16-OCT-2003 (revised)
DT 25-MAR-2003 (revised)
DT 29-NOV-1995 (first entry)
XX
DE E. coli PPIase-alpha tryptic fragment 4.
XX
KW Escherichia coli; protein conformation; folding; acceleration;
KW PPIase-alpha; peptidyl prolyl cis trans isomerase alpha; catalysis;
KW isomerisation; prolyl peptide bond.
XX
OS Escherichia coli; (ST 249 strain).

Query Match 4.3%; Score 47; DB 3; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.4e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 91 DFMIQGGDF 99
|:|||||
Db 1 DYMIQGGDF 9

RESULT 38
AAB46947
ID AAB46947 standard; peptide; 9 AA.

XX AC AAB46947;

XX XX

DT 04-MAY-2001 (first entry)

XX DE Human cyclophilin B derived tumor antigenic peptide SEQ ID 33.

XX KW Tumor antigenic peptide; interferon; IFN; antigen-specific T cell;

XX KW virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell;

XX KW viral infectious disease; cyclophilin B; human.

XX OS Homo sapiens.

XX XX

PN EP1074267-A1.

XX XX

PD 07-FEB-2001.

XX XX

PF 24-JUL-2000; 2000EP-00306263.

XX XX

PR 22-JUL-1999; 99JP-00207687.

XX XX

PA (SUMU) SUMITOMO PHARM CO LTD.

XX XX

PI Takasu H, Gotoh M, Yamaoka T;

XX XX

DR WPI; 2001-193144/20.

PT Use of antigenic proteins, peptides, interferon or their encoding DNA, in
PT the manufacture of an agent for the induction of antigen-specific T
PT cells.
XX
PS Disclosure; Page 20; 25pp; English.

XX CC This invention describes the novel use of interferons (IFNs) or DNAs

CC capable of expressing the interferons and/or antigenic proteins (AP),
CC antigenic peptides derived from the proteins or DNAs capable of
CC expressing the antigenic proteins or peptides, in the manufacture of an
CC agent for induction of antigen-specific T cells. The products of the
CC invention have virucide and cytostatic activity and can be used for gene
CC therapy or as inducers of antigen-specific T cells. The action of
CC interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic
CC T cell (CTL) by administering an antigenic peptide in an incomplete
CC Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or
CC DNA encoding IFNs) are useful in the manufacture of a medicament for
CC inducing antigen-specific T cells in an individual who has been
CC administered with AP (or DNA encoding AP) or vice versa. The medicament
CC is useful for the treatment or prophylaxis of a tumor or a viral
CC infectious disease
XX
SQ Sequence 9 AA;

Query Match 4.3%; Score 47; DB 4; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.4e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 91 DFMIQGGDF 99
|:|||||
Db 1 DYMIQGGDF 9

RESULT 39

ADC17709

ID ADC17709 standard; peptide; 9 AA.

XX XX

AC ADC17709;

XX XX

DT 18-DEC-2003 (first entry)

XX XX

DE Modified cyclophilin B protein amino acids 91-99.

XX XX

KW cytostatic; antiallergic; vaccine; allergic reaction suppressor; antigen;
KW allergy; epitope; cancer; immunoglobulin E antibody; desensitization;
KW cyclophilin B.

XX XX

OS Synthetic.

XX XX

PN WO2003020306-A1.

XX XX

PD 13-MAR-2003.

XX XX

PF 28-AUG-2002; 2002WO-JP008641.

XX XX

PR 29-AUG-2001; 2001JP-00260046.

XX XX

PA (ITOH/) ITOH K.

XX XX

PI Itoh K, Yamada A;

XX XX

DR WPI; 2003-300831/29.

XX XX

PT Desensitizers or allergic reaction suppressors containing peptides
PT originating from the same antigenic substances as reaction-inducing
PT substances, useful for preventing or treating type I allergic diseases
PT and in cancer vaccines.

XX XX

PS Claim 8; SEQ ID NO 9; 49pp; Japanese.

XX XX

CC The invention relates to allergic reaction suppressors, comprising a
CC peptide which originates from the same antigenic substance as the
CC antigenic substance inducing the (peptide-originated) allergic reaction,
CC and containing an epitope different from the epitope participating in the
CC induction of the allergic reaction and yet does not induce the allergic
CC reaction. The desensitizers or allergic reaction suppressors are useful
CC for treating and preventing type I allergic diseases and in cancer
CC vaccines for preventing or treating cancer. The allergic reaction
CC suppressors are also useful for suppressing an allergic reaction or
CC reducing immunoglobulin E antibody production, and for desensitization to
CC antigens. This sequence represents a peptide used in the invention and
CC corresponds to amino acids 91-99 of the cyclophilin B protein with the
CC Phe at position 92 replaced by a Tyr.

XX SQ Sequence 9 AA;

Query Match 4.3%; Score 47; DB 7; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.4e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 91 DFMIQGGDF 99

|:|||||

Db 1 DYMIQGGDF 9

RESULT 40

AAy69962

ID AAY69962 standard; peptide; 9 AA.

XX XX

AC AAY69962;

XX XX

DT 11-APR-2000 (first entry)

XX XX

DE Human cyclophilin B peptide fragment #42.

XX XX

KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;

KW HLA antigen; diagnosis; tumour; therapy.
XX Homo sapiens.
OS WO9967288-A1.
XX
PN 29-DEC-1999.
XX
XX 24-JUN-1999; 99WO-JP003360.
PF
XX 25-JUN-1998; 98JP-00178449.
PR
XX (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX
XX Itoh K, Gomi S;
PI WPI; 2000-116932/10.
XX
XX Tumor antigen peptides derived from cyclophilin B for treatment and diagnosis of tumors.
PT
PT
XX
XX Claim 10; Page 60; 64pp; Japanese.
PS
XX This sequence represents a cyclophilin B peptide of the invention. The peptides are tumour antigen peptides derived from cyclophilin B, that recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The peptides are used for the treatment and diagnosis of tumours
XX
XX Sequence 9 AA;
SQ
Query Match 4.2%; Score 46; DB 3; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.4e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 84 KFHVRVTKDF 92
Db 1 KYHRVTKDF 9
RESULT 41
AAAY69941
ID AAAY69941 standard; peptide; 9 AA.
XX
AC AAAY69941;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #21.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
XX WO9967288-A1.
PN 29-DEC-1999.
XX
XX 24-JUN-1999; 99WO-JP003360.
PF
XX 25-JUN-1998; 98JP-00178449.
PR
XX (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX
XX Itoh K, Gomi S;
PI WPI; 2000-116932/10.
XX
XX Tumor antigen peptides derived from cyclophilin B for treatment and diagnosis of tumors.
PT
PT
XX

PS Claim 4; Page 55; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The peptides are tumour antigen peptides derived from cyclophilin B, that recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The peptides are used for the treatment and diagnosis of tumours
XX
XX Sequence 9 AA;
SQ
Query Match 4.2%; Score 46; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 41 DLRIGDEVDV 49
Db 1 DLRIGDEVDV 9
RESULT 42
AAB46946
ID AAB46946 standard; peptide; 9 AA.
XX
AC AAB46946;
XX
DT 04-MAY-2001 (first entry)
XX
DE Human cyclophilin B derived tumor antigenic peptide SEQ ID 32.
XX
KW Tumor antigenic peptide; interferon; IFN; antigen-specific T cell;
KW virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell;
KW viral infectious disease; cyclophilin B; human.
XX
OS Homo sapiens.
XX
PN EP1074267-A1.
XX
PD 07-FEB-2001.
XX
PF 24-JUL-2000; 2000EP-00306263.
XX
PR 22-JUL-1999; 99JP-00207687.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
XX
PI Takasu H, Gotoh M, Yamaoka T;
XX
DR WPI; 2001-193144/20.
XX
PT Use of antigenic proteins, peptides, interferon or their encoding DNA, in the manufacture of an agent for the induction of antigen-specific T cells.
PT
XX
PS Disclosure; Page 19; 25pp; English.
XX
CC This invention describes the novel use of interferons (IFNs) or DNAs capable of expressing the interferons and/or antigenic proteins (AP), antigenic peptides derived from the proteins or DNAs capable of expressing the antigenic proteins or peptides, in the manufacture of an agent for induction of antigen-specific T cells. The products of the invention have virucide and cytostatic activity and can be used for gene therapy or as inducers of antigen-specific T cells. The action of interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic T cell (CTL) by administering an antigenic peptide in an incomplete Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or DNA encoding IFNs) are useful in the manufacture of a medicament for inducing antigen-specific T cells in an individual who has been administered with AP (or DNA encoding AP) or vice versa. The medicament is useful for the treatment or prophylaxis of a tumor or a viral infectious disease
XX
XX Sequence 9 AA;
SQ
Query Match 4.2%; Score 46; DB 4; Length 9;

Best Local Similarity 88.9%; Pred. No. 1.4e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 84 KHRVIKDF 92
|:|||||
Db 1 KYHRVIKDF 9

RESULT 43
AAAY69937
ID AAY69937 standard; peptide; 10 AA.

XX AC AAY69937;

XX DT 11-APR-2000 (first entry)

XX DE Human cyclophilin B peptide fragment #17.

XX KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
XX KW HLA antigen; diagnosis; tumour; therapy.

XX OS Homo sapiens.

XX PN WO9967288-A1.

XX PD 29-DEC-1999.

XX PF 24-JUN-1999; 99WO-JP003360.

XX PR 25-JUN-1998; 98JP-00178449.

XX PA (SUMU) SUMITOMO PHARM CO LTD.
XX PA (ITOH/) ITOH K.

XX PI Itoh K, Gomi S;

XX DR WPI; 2000-116932/10.

XX PT Tumor antigen peptides derived from cyclophilin B for treatment and
XX PT diagnosis of tumors.

XX PS Claim 4; Page 53; 64pp; Japanese.

XX CC This sequence represents a cyclophilin B peptide of the invention. The
XX CC peptides are tumour antigen peptides derived from cyclophilin B, that
XX CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
XX CC peptides are used for the treatment and diagnosis of tumours

XX SQ Sequence 10 AA;

Query Match 4.2%; Score 46; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 LIAGSVFFLL 18
|:|||||
Db 1 LIAGSVFFLL 10

RESULT 44
AAAY69934
ID AAY69934 standard; peptide; 10 AA.

XX AC AAY69934;

XX DT 11-APR-2000 (first entry)

XX DE Human cyclophilin B peptide fragment #14.

XX KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
XX KW HLA antigen; diagnosis; tumour; therapy.

XX OS Homo sapiens.

XX PN WO9967288-A1.
XX PD 29-DEC-1999.
XX PF 24-JUN-1999; 99WO-JP003360.
XX PR 25-JUN-1998; 98JP-00178449.
XX PA (SUMU) SUMITOMO PHARM CO LTD.
XX PA (ITOH/) ITOH K.
XX PI Itoh K, Gomi S;
XX DR WPI; 2000-116932/10.
XX PT Tumor antigen peptides derived from cyclophilin B for treatment and
XX PT diagnosis of tumors.
XX PS Claim 4; Page 53; 64pp; Japanese.
XX CC This sequence represents a cyclophilin B peptide of the invention. The
XX CC peptides are tumour antigen peptides derived from cyclophilin B, that
XX CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
XX CC peptides are used for the treatment and diagnosis of tumours
XX SQ Sequence 10 AA;

Query Match 4.2%; Score 46; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 ALIAGSVFFLL 17
|:|||||
Db 1 ALIAGSVFFLL 10

RESULT 45
AAAY69933
ID AAY69933 standard; peptide; 11 AA.

XX AC AAY69933;

XX DT 11-APR-2000 (first entry)

XX DE Human cyclophilin B peptide fragment #13.

XX KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
XX KW HLA antigen; diagnosis; tumour; therapy.

XX OS Homo sapiens.

XX PN WO9967288-A1.

XX PD 29-DEC-1999.

XX PF 24-JUN-1999; 99WO-JP003360.

XX PR 25-JUN-1998; 98JP-00178449.

XX PA (SUMU) SUMITOMO PHARM CO LTD.
XX PA (ITOH/) ITOH K.

XX PI Itoh K, Gomi S;

XX DR WPI; 2000-116932/10.

XX PT Tumor antigen peptides derived from cyclophilin B for treatment and
XX PT diagnosis of tumors.

XX PS Claim 4; Page 52; 64pp; Japanese.

XX CC This sequence represents a cyclophilin B peptide of the invention. The

CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX

SQ Sequence 11 AA;

Query Match 4.2%; Score 46; DB 3; Length 11;
Best Local Similarity 100.0%; Pred. No. 4.6e+02;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 LLAALIAGSV 14
| | | | | | | | | |
Db 1 LLAALIAGSV 11

Search completed: August 30, 2004, 10:49:40
Job time : 309.892 secs

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OM protein - protein search, using sw model

Run on: August 30, 2004, 10:39:14 ; Search time 16.3885 Seconds
(without alignments)
189.646 Million cell updates/sec

Title: US-09-720-469A-4
Perfect score: 60
Sequence: 1 GYKNSKFHRVI 11

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters: 309569

Minimum DB seq length: 8
Maximum DB seq length: 14

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A Geneseq_29Jan04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	60	100.0	11	3	AAY69924 Human cyc
2	39	65.0	9	3	AAY69923 Human cyc
3	32	53.3	9	3	AAY69921 Human cyc
4	32	53.3	9	4	AAB46930 Human cyc
5	32	53.3	9	4	AAG68088 Antitumou
6	32	53.3	9	5	ABG79075 Human Cyp
7	32	53.3	9	6	ABR84373 Human Cyp
8	32	53.3	9	7	ADC17701 Cyclophil
9	30	50.0	11	2	AAR72931 E. coli p
10	30	50.0	11	2	AAR72887 E. coli p
11	29	48.3	9	3	AAY69962 Human cyc
12	29	48.3	9	4	AAB46946 Human cyc
13	29	48.3	10	3	AAB27129 Human CAS
14	28	46.7	9	2	AAW33943 Betal-adr
15	28	46.7	14	2	AAW33942 Betal-adr
16	28	46.7	14	5	ABJ15069 Human 125
17	27	45.0	9	3	AAY69959 Human cyc
18	27	45.0	9	7	ABR84746 Bovine po
19	27	45.0	11	7	ADD88599 Influenza
20	26.5	44.2	11	2	AAW19409 Anti-fung
21	26.5	44.2	11	2	AAW19455 Anti-fung
22	26.5	44.2	12	2	AAW19415 Anti-fung
23	26.5	44.2	12	2	AAW19417 Anti-fung
24	26.5	44.2	12	2	AAW19414 Anti-fung
25	26.5	44.2	12	2	AAW19407 Anti-fung

26	26.5	44.2	12	2	AAW19426	Anti-fung
27	26.5	44.2	12	2	AAW19454	Anti-fung
28	26.5	44.2	12	2	AAW19461	Anti-fung
29	26.5	44.2	12	2	AAW19460	Anti-fung
30	26.5	44.2	12	2	AAW19463	Anti-fung
31	26.5	44.2	12	2	AAW19472	Anti-fung
32	26.5	44.2	12	2	AAW25141	Antibacte
33	26.5	44.2	12	2	AAW25143	Antibacte
34	26.5	44.2	12	2	AAW25140	Antibacte
35	26.5	44.2	12	3	AAW11990	Histatin-
36	26.5	44.2	12	3	AAW11976	Histatin-
37	26.5	44.2	12	3	AAW11985	Histatin-
38	26.5	44.2	12	3	AAW11987	Histatin-
39	26.5	44.2	12	3	AAW11977	Histatin-
40	26.5	44.2	12	7	ADB81288	Biologica
41	26.5	44.2	14	2	AAR89887	Human his
42	26.5	44.2	14	2	AAW19441	Anti-fung
43	26.5	44.2	14	2	AAW19452	Anti-fung
44	26.5	44.2	14	2	AAW31675	Human his
45	26	43.3	9	2	AAW49599	Human leu

ALIGNMENTS

RESULT 1
AAY69924
ID AAY69924 standard; peptide; 11 AA.
XX
AC AAY69924;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #4.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
PN WO9967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP003360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
(SUMU) SUMITOMO PHARM CO LTD.
(ITOH/) ITOH K.
PI Itoh K, Gomi S;
XX
DR WPI; 2000-116932/10.
XX
PT Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 4; Page 50; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 11 AA;

Query Match 100.0%; Score 60; DB 3; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.00013;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GYKNSKFHRVI 11
|||||

Db 1 GYKNSKFHRVI 11

RESULT 2
AAY69923
ID AAY69923 standard; peptide; 9 AA.
XX
AC AAY69923;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #3.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
PN WO9967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP003360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX
PI Itoh K, Gomi S;
XX
DR WPI; 2000-116932/10.
XX
DE Human cyclophilin B peptide derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 4; Page 50; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;
Query Match 65.0%; Score 39; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GYKNSKF 7
Db 3 GYKNSKF 9

RESULT 3
AAY69921
ID AAY69921 standard; peptide; 9 AA.
XX
AC AAY69921;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #1.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
PN WO9967288-A1.
XX
PD 29-DEC-1999.
XX

PF 24-JUN-1999; 99WO-JP003360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX
PI Itoh K, Gomi S;
XX
DR WPI; 2000-116932/10.
XX
PT Tumor antigen peptides derived from cyclophilin 3 for treatment and
PT diagnosis of tumors.
XX
PS Claim 4; Page 49; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;
Query Match 53.3%; Score 32; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 KFHRVI 11
Db 1 KFHRVI 6

RESULT 4
AAB46930
ID AAB46930 standard; peptide; 9 AA.
XX
AC AAB46930;
XX
DT 04-MAY-2001 (first entry)
XX
DE Human cyclophilin B derived tumor antigenic peptide SEQ ID 16.
XX
KW Tumor antigenic peptide; interferon; IFN; antigen-specific T cell;
KW viricide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell;
KW viral infectious disease; cyclophilin B; human.
XX
OS Homo sapiens.
XX
PN EP1074267-A1.
XX
PD 07-FEB-2001.
XX
PF 24-JUL-2000; 2000EP-00306263.
XX
PR 22-JUL-1999; 99JP-00207687.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
PI Takasu H, Gotoh M, Yamaoka T;
XX
DR WPI; 2001-193144/20.
XX
PT Use of antigenic proteins, peptides, interferon or their encoding DNA, in
PT the manufacture of an agent for the induction of antigen-specific T
PT cells.
XX
PS Disclosure; Page 15; 25pp; English.
XX
CC This invention describes the novel use of interferons (IFNs) or DNAs
CC capable of expressing the interferons and/or antigenic proteins (API),
CC antigenic peptides derived from the proteins or DNAs capable of
CC expressing the antigenic proteins or peptides, in the manufacture of an
CC agent for induction of antigen-specific T cells. The products of the

CC invention have virucide and cytostatic activity and can be used for gene
CC therapy or as inducers of antigen-specific T cells. The action of
CC interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic
CC T cell (CTL) by administering an antigenic peptide in an incomplete
CC Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or
CC DNA encoding IFNs) are useful in the manufacture of a medicament for
CC inducing antigen-specific T cells in an individual who has been
CC administered with AP (or DNA encoding AP) or vice versa. The medicament
CC is useful for the treatment or prophylaxis of a tumor or a viral
CC infectious disease
XX
SQ Sequence 9 AA;

Query Match 53.3%; Score 32; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 KFHRI 11
Db 1 KFHRI 6

RESULT 5
AAG68088
ID AAG68088 standard; peptide; 9 AA.

XX AAG68088;

DT 17-DEC-2001 (first entry)

DE Antitumor peptide cyclophilin B 84-92.

XX Antitumor; cancer; cancer cell recognition; antigenic; CTL; lck; src;
KW tumour specific cytotoxic T lymphocyte; anticancer; SART-1; SART-3;
KW cyclophilin B gene; HLA-A2402.

XX Homo sapiens.

PN JP2001245675-A.

PD 11-SEP-2001.

PF 25-DEC-2000; 2000JP-00393047.

PR 28-DEC-1999; 99JP-00374322.

XX (ITOY/) ITO Y.

XX WPI; 2001-610076/70.

XX New peptides for recognizing cancer cells with tumor specific cytotoxic T
PT lymphocytes and for treating cancer.

PS Claim 8; Page 2; 14pp; Japanese.

XX The present invention describes peptides recognising cancer cells with
CC tumour specific cytotoxic T lymphocytes (CTL). The peptides recognising
CC cancer cells with tumour specific CTLs are selected from: (1) peptides of
CC sequences (AAG68066 to AAG68069); (2) peptides containing the above
CC mentioned sequences; (3) peptides having 70 % or more of homogeneity with
CC the above mentioned sequences; and (4) peptides with one or more deleted,
CC substituted, added or inserted amino acid(s) of the above mentioned
CC sequences, particularly those having recognising property due to HLA-
CC A2402 binding CTL, especially having at least 5 amino acids, used for
CC medicine, particularly anticancer agents, derived from antitumor
CC antigenic peptides of lck, src family, SART-1, SART-3 or cyclophilin B
CC genes. The antitumor peptides have cytostatic activities. The peptides
CC are used for the treatment of cancer. The peptides cause activation of
CC CTL in cancer patients. The present sequence represents a peptide from
CC the present invention

XX Sequence 9 AA;

Query Match 53.3%; Score 32; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 KFHRI 11
Db 1 KFHRI 6

RESULT 6
ABG79075
ID ABG79075 standard; peptide; 9 AA.

XX ABG79075;

DT 15-NOV-2002 (first entry)

XX Human Cyp-B class I HLA widely expressed antigen peptide #1.

XX Cell penetrating peptide; cancer; tumour; melanoma; thymoma; antigen;
KW lymphoma; sarcoma; lung cancer; non-Hodgkin's lymphoma; leukaemia;
KW Hodgkin's lymphoma; uterine cancer; cervical cancer; bladder cancer;
KW kidney cancer; adenocarcinoma; breast cancer; prostate cancer;
KW ovarian cancer; pancreatic cancer; epitope; vaccine; dendritic cell;
KW tumour infiltrating lymphocyte; TIL; human leukocyte antigen; HLA;
KW cytostatic; human.

XX Homo sapiens.

XX WO200264057-A2.

PD 22-AUG-2002.

PF 15-FEB-2002; 2002WO-US005212.

PR 15-FEB-2001; 2001US-0268687P.

XX (BAYU) BAYLOR COLLEGE MEDICINE.

XX Wang R;

XX WPI; 2002-627577/67.

XX Novel composition for treating a disease in an animal, comprises an
PT immune effector cell and cell penetrating peptide associated with an
PT antigen or antibody.

PS Disclosure; Page 17; 61pp; English.

XX The invention relates to a composition (I) comprising an immune effector
CC cell and a cell penetrating peptide (CPP) associated with an antigen or
CC antibody. Also included are (1) a vaccine comprising (I), CPP associated
CC with an antigen, and a pharmaceutically acceptable carrier and (2)
CC preparing a composition for a disease, by providing (I) and CPP
CC associated with an antigen for disease, and introducing the antigen-
CC associated CPP to (I), where antigen enters into the cell. The antigens
CC are, for example, tumour antigen derived epitopes recognised by tumour
CC infiltrating lymphocytes (TIL) of HLA (human leukocyte antigen) class I
CC or II. The composition is useful for enhancing immunity in an animal to a
CC disease, by administering a mature dendritic cell comprising CPP
CC associated with an antigen to disease, to the animal, such that following
CC the administration, animal is protected from disease, where the animal
CC comprises both CD4+ and CD8+ T cells. It is also useful for treating a
CC disease (e.g. cancer, tumour, melanoma, thymoma, lymphoma, sarcoma, lung
CC cancer, non-Hodgkin's lymphoma, leukaemia, Hodgkin's lymphoma, uterine
CC cancer, cervical cancer, bladder cancer, kidney cancer, adenocarcinoma,
CC breast cancer, prostate cancer, ovarian cancer and pancreatic cancer).
CC The animal is further subjected to a cancer treatment including surgery,
CC radiation, chemotherapy or gene therapy. The administration of (I),
CC preferably dendritic cell is prior to, subsequent to or concurrent with,
CC the cancer treatment. The present sequence is a tumour antigen derived
CC epitope for inclusion in the composition of the invention

KW PPIase-alpha; peptidyl prolyl cis trans isomerase alpha; catalysis;
 XX isomerisation; prolyl peptide bond.
 OS Escherichia coli; (ST 249 strain).
 XX
 PN EP647714-A1.
 XX
 PD 12-APR-1995.
 XX
 PF 19-JUL-1990; 94EP-00203612.
 XX
 PR 19-JUL-1989; 89JP-00184738.
 PR 06-OCT-1989; 89JP-00260244.
 PR 29-DEC-1989; 89JP-00344705.
 PR 19-JUL-1990; 90EP-00307914.
 XX
 PA (TOFU) TONEN CORP.
 XX
 PI Hayano T, Katou S, Maki N, Takahashi N, Suzuki M;
 XX
 DR WPI; 1995-140756/19.
 XX
 PT New E.coli peptidyl prolyl cis trans isomerase beta - used to accelerate
 PT the folding of proteins, partic. for activation of inactive recombinant
 PT proteins.
 XX
 PS Example 6; Page 24; 85pp; English.
 XX
 CC AAR72930-36 are tryptic fragments of E. coli PPIase-beta (peptidyl prolyl
 CC cis trans isomerase). The E. coli PPIase-beta has a single mol. wt. of
 CC about 20 kDa and a single isoelectric point of about 5.0. The enzyme
 CC catalyses the isomerisation of prolyl peptide bonds in proteins and
 CC accelerates the folding of the protein. The inventors are claiming a
 CC PPIase-beta. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25
 CC -MAR-2003 to correct PF field.) (Updated on 25-MAR-2003 to correct PR
 CC field.) (Updated on 16-OCT-2003 to standardise OS field)
 XX
 SQ Sequence 11 AA;
 PS
 XX
 CC Query Match 50.0%; Score 30; DB 2; Length 11;
 CC Best Local Similarity 62.5%; Pred. No. 65;
 CC Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 2 YKNSKPFHR 9
 DB | | : | | |
 4 YNNTIFHR 11
 RESULT 10
 AAR72887
 ID AAR72887 standard; peptide; 11 AA.
 XX
 AC AAR72887;
 XX
 DT 16-OCT-2003 (revised)
 DT 25-MAR-2003 (revised)
 DT 29-NOV-1995 (first entry)
 XX
 DE E. coli PPIase-beta tryptic fragment 2.
 XX
 KW Escherichia coli; protein conformation; folding; acceleration;
 KW PPIase-alpha; peptidyl prolyl cis trans isomerase alpha; catalysis;
 KW isomerisation; prolyl peptide bond.
 XX
 OS Escherichia coli; (ST 249 strain).
 XX
 PN EP647713-A1.
 XX
 PD 12-APR-1995.
 XX
 PF 19-JUL-1990; 94EP-00203610.
 XX
 PR 19-JUL-1989; 89JP-00184738.

PR 06-OCT-1989; 89JP-00260244.
 PR 29-DEC-1989; 89JP-00344705.
 PR 19-JUL-1990; 90EP-00307914.
 XX
 PA (TOFU) TONEN CORP.
 XX
 PI Hayano T, Katou S, Maki N, Takahashi N, Suzuki M;
 XX
 DR WPI; 1995-140755/19.
 XX
 PT New E.coli peptidyl prolyl cis trans isomerase alpha - used to accelerate
 PT the folding of proteins, partic. for activation of inactive recombinant
 PT proteins.
 XX
 PS Example 6; Page 24; 85pp; English.
 XX
 CC AAR72886-92 are tryptic fragments of E. coli PPIase-beta (peptidyl prolyl
 CC cis trans isomerase). The E. coli PPIase-beta has a single mol. wt. of
 CC about 20 kDa and a single isoelectric point of about 5.0. The enzyme
 CC catalyses the isomerisation of prolyl peptide bonds in proteins and
 CC accelerates the folding of the protein. The inventors are claiming the
 CC PPIase-alpha. (Updated on 25-MAR-2003 to correct PN field.) (Updated on
 CC 25-MAR-2003 to correct PF field.) (Updated on 25-MAR-2003 to correct PR
 CC field.) (Updated on 16-OCT-2003 to standardise OS field)
 XX
 SQ Sequence 11 AA;
 PS
 XX
 CC Query Match 50.0%; Score 30; DB 2; Length 11;
 CC Best Local Similarity 62.5%; Pred. No. 65;
 CC Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 2 YKNSKPFHR 9
 DB | | : | | |
 4 YNNTIFHR 11
 RESULT 11
 AAY69962
 ID AAY69962 standard; peptide; 9 AA.
 XX
 AC AAY69962;
 XX
 DT 11-APR-2000 (first entry)
 XX
 DE Human cyclophilin B peptide fragment #42.
 XX
 KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
 KW HLA antigen; diagnosis; tumour; therapy.
 XX
 OS Homo sapiens.
 XX
 PN WO9967288-A1.
 XX
 PD 29-DEC-1999.
 XX
 PF 24-JUN-1999; 99WO-JP003360.
 XX
 PR 25-JUN-1998; 98JP-00178449.
 XX
 PA (SUMU) SUMITOMO PHARM CO LTD.
 PA (ITOH/) ITOH K.
 XX
 PI Itoh K, Gomi S;
 XX
 DR WPI; 2000-116932/10.
 XX
 PT Tumor antigen peptides derived from cyclophilin B for treatment and
 PT diagnosis of tumors.
 XX
 PS Claim 10; Page 60; 64pp; Japanese.
 XX
 CC This sequence represents a cyclophilin B peptide of the invention. The
 CC peptides are tumour antigen peptides derived from cyclophilin B, that

CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;

Query Match 48.3%; Score 29; DB 3; Length 9;
Best Local Similarity 83.3%; Pred. No. 1.4e+06;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 6 KHRVI 11
|:||||
Db 1 KYHRVI 6

RESULT 12
AAB46946
ID AAB46946 standard; peptide; 9 AA.
XX
AC AAB46946;
XX
DT 04-MAY-2001 (first entry)
XX
DE Human cyclophilin B derived tumor antigenic peptide SEQ ID 32.
XX
KW Tumor antigenic peptide; interferon; IFN; antigen-specific T cell;
KW virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell;
KW viral infectious disease; cyclophilin B; human.
XX
OS Homo sapiens.
XX
PN EP1074267-A1.
XX
PD 07-FEB-2001.
XX
PF 24-JUL-2000; 2000EP-00306263.
XX
PR 22-JUL-1999; 99JP-00207687.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
XX
PI Takasu H, Gotoh M, Yamaoka T;
XX
DR WPI; 2001-193144/20.
XX
PT Use of antigenic proteins, peptides, interferon or their encoding DNA, in
PT the manufacture of an agent for the induction of antigen-specific T
PT cells.
XX
PS Disclosure; Page 19; 25pp; English.
XX
CC This invention describes the novel use of interferons (IFNs) or DNAs
CC capable of expressing the interferons and/or antigenic proteins (AP),
CC antigenic peptides derived from the proteins or DNAs capable of
CC expressing the antigenic proteins or peptides, in the manufacture of an
CC agent for induction of antigen-specific T cells. The products of the
CC invention have virucide and cytostatic activity and can be used for gene
CC therapy or as inducers of antigen-specific T cells. The action of
CC interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic
CC T cell (CTL) by administering an antigenic peptide in an incomplete
CC Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or
CC DNA encoding IFNs) are useful in the manufacture of a medicament for
CC inducing antigen-specific T cells in an individual who has been
CC administered with AP (or DNA encoding AP) or vice versa. The medicament
CC is useful for the treatment or prophylaxis of a tumor or a viral
CC infectious disease
XX
SQ Sequence 9 AA;

Query Match 48.3%; Score 29; DB 4; Length 9;
Best Local Similarity 83.3%; Pred. No. 1.4e+06;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 6 KHRVI 11

Db |:||||
1 KYHRVI 6

RESULT 13
AAB27129
ID AAB27129 standard; protein; 10 AA.
XX
AC AAB27129;
XX
DT 12-FEB-2001 (first entry)
XX
DE Human CASB619 protein epitope SEQ ID NO: 55.
XX
KW Human; CASB619; cancer; autoimmune disease; immunogen; vaccine; epitope.
XX
OS Homo sapiens.
XX
PN WO200058460-A2.
XX
PD 05-OCT-2000.
XX
PF 20-MAR-2000; 2000WO-EP002478.
XX
PR 26-MAR-1999; 99GB-00007113.
PR 25-SEP-1999; 99GB-00022858.
XX
PA (SMIK) SMITHKLINE BEECHAM BIOLOGICALS.
XX
PI Bruck CEM, Cassart J, Coche T, Vinals Y De BassolsC;
XX
DR WPI; 2000-664923/64.
XX
PT Novel CASB619 polypeptides useful for diagnosing, and as vaccines for
PT prophylactic and therapeutic treatment of, cancers, particularly ovarian
PT and colon carcinoma, and autoimmune diseases.
XX
PS Example 7; Page 64; 68pp; English.
XX
CC The present sequence comprises an epitope derived from the human CASB619
CC protein sequence. This protein is thought to be specifically or over-
CC expressed in tumour cells, and so can be used as a target for antigen-
CC specific immune responses which can cause destruction of the tumour cell.
CC In addition, the protein and gene can be used in cancer diagnosis, in the
CC treatment of autoimmune diseases and in vaccines against cancer and
CC autoimmune disease. The present sequence can be used as an immunogen
XX
SQ Sequence 10 AA;

Query Match 48.3%; Score 29; DB 3; Length 10;
Best Local Similarity 62.5%; Pred. No. 91;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 GYKNSKPFH 8
|:||||
Db 1 GTKNNKIH 8

RESULT 14
AAW33943
ID AAW33943 standard; peptide; 9 AA.
XX
AC AAW33943;
XX
DT 28-MAY-1998 (first entry)
XX
DE Beta1-adrenergic receptor antagonist.
XX
KW Antagonist; integral membrane protein; inhibitor; transmembrane domain;
KW therapy; psychotic disorder; Huntington's disease; Parkinson's disease;
KW post-myocardial infarction; HIV infection; cell proliferation disorder;
KW peptic ulcer; glaucoma; asthma; renal disease; autoimmune disease;
KW antibacterial; beta1-adrenergic receptor.

XX Homo sapiens.
 OS WO9735881-A2.
 XX 02-OCT-1997.
 XX 26-MAR-1997; 97WO-CA000203.
 XX 27-MAR-1996; 96US-0014306P.
 PR 25-JUN-1996; 96US-00670119.
 PR 20-AUG-1996; 96US-0024240P.
 XX (NGGY/) NG G Y K.
 PA (SEEM/) SEEMAN P.
 PA (GEOR/) GEORGE S R.
 PA (ODOW/) O'DOWD B F.
 XX
 PI Ng GYK, Seeman P, George SR, Odowd BF;
 XX WPI; 1997-489566/45.

PT Inhibitor of integral membrane protein - used to treat e.g.
 PT schizizophrenia, hypertension, viral infection, cancer etc.
 XX

PS Claim 17; Page 94; 127pp; English.

XX This sequence is a betal-adrenergic receptor antagonist, and is an
 CC antagonist of the invention. The antagonists (A) are for inhibiting the
 CC function of a prokaryotic or eukaryotic integral membrane protein (IMP)
 CC having at least one transmembrane domain (TMD), comprises a peptide
 CC including at least 4 consecutive amino acids (aa) from the sequence of
 CC the TMD. (A) are used to treat or prevent disorders in mammals that
 CC involve disturbances of IMP, and the same effect is achieved by inserting
 CC a nucleic acid encoding (A) into the cells of the mammal. Specified
 CC conditions that can be treated are schizizophrenia, psychotic disorders,
 CC Huntington's disease, Tourette's syndrome, hypertension, post-myocardial
 CC infarction, tachyarrhythmia, human immunodeficiency virus infection,
 CC AIDS, cell proliferation (cancer, psoriasis or hyperkeratosis), and drug
 CC abuse. (A) can also be used to treat peptic ulcer, glaucoma, asthma,
 CC renal disease, Parkinson's disease, congestive heart failure, migraine,
 CC depression, obesity, diabetic neuropathy/retinopathy, autoimmune
 CC diseases, graft rejection etc. (A) can be used as diuretics and
 CC antibacterials. (A) may also be used to determine function of orphan
 CC receptors and, when attached to a marker, for tissue imaging to
 CC localise/quantify specific receptors. The transgenic animals are used to
 CC test efficacy/toxicity of (A) and as models of diseases. (A) are very
 CC specific and selective, against the IMP from which they are derived, so
 CC should have few side effects
 XX

SQ Sequence 9 AA;

Query Match 46.7%; Score 28; DB 2; Length 9;
 Best Local Similarity 62.5%; Pred. No. 1.4e+06;
 Matches .5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 GYKNSKPFH 8
 |||||:
 Db 1 GYANSAFN 8

RESULT 15
 AAW33942
 ID AAW33942 standard; peptide; 14 AA.

XX AAW33942;

AC 28-MAY-1998 (first entry)

XX Betal-adrenergic receptor antagonist.

DE Antagonist; integral membrane protein; inhibitor; transmembrane domain;

XX therapy; psychotic disorder; Huntington's disease; Parkinson's disease;

KW post-myocardial infarction; HIV infection; cell proliferation disorder;
 KW peptic ulcer; glaucoma; asthma; renal disease; autoimmune disease;
 KW antibacterial; betal-adrenergic receptor.

XX Homo sapiens.

XX WO9735881-A2.

XX 02-OCT-1997.

XX 26-MAR-1997; 97WO-CA000203.

XX 27-MAR-1996; 96US-0014306P.

XX 25-JUN-1996; 96US-00670119.

XX 20-AUG-1996; 96US-0024240P.

XX (NGGY/) NG G Y K.

XX (SEEM/) SEEMAN P.

XX (GEOR/) GEORGE S R.

XX (ODOW/) O'DOWD B F.

XX Ng GYK, Seeman P, George SR, Odowd BF;

XX WPI; 1997-489566/45.

XX Inhibitor of integral membrane protein - used to treat e.g.

XX schizizophrenia, hypertension, viral infection, cancer etc.

XX Claim 17; Page 94; 127pp; English.

XX This sequence is a betal-adrenergic receptor antagonist, and is an
 CC antagonist of the invention. The antagonists (A) are for inhibiting the
 CC function of a prokaryotic or eukaryotic integral membrane protein (IMP)
 CC having at least one transmembrane domain (TMD), comprises a peptide
 CC including at least 4 consecutive amino acids (aa) from the sequence of
 CC the TMD. (A) are used to treat or prevent disorders in mammals that
 CC involve disturbances of IMP, and the same effect is achieved by inserting
 CC a nucleic acid encoding (A) into the cells of the mammal. Specified
 CC conditions that can be treated are schizizophrenia, psychotic disorders,
 CC Huntington's disease, Tourette's syndrome, hypertension, post-myocardial
 CC infarction, tachyarrhythmia, human immunodeficiency virus infection,
 CC AIDS, cell proliferation (cancer, psoriasis or hyperkeratosis), and drug
 CC abuse. (A) can also be used to treat peptic ulcer, glaucoma, asthma,
 CC renal disease, Parkinson's disease, congestive heart failure, migraine,
 CC depression, obesity, diabetic neuropathy/retinopathy, autoimmune
 CC diseases, graft rejection etc. (A) can be used as diuretics and
 CC antibacterials. (A) may also be used to determine function of orphan
 CC receptors and, when attached to a marker, for tissue imaging to
 CC localise/quantify specific receptors. The transgenic animals are used to
 CC test efficacy/toxicity of (A) and as models of diseases. (A) are very
 CC specific and selective, against the IMP from which they are derived, so
 CC should have few side effects
 XX

SQ Sequence 14 AA;

Query Match 46.7%; Score 28; DB 2; Length 14;
 Best Local Similarity 62.5%; Pred. No. 2e+02;
 Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 GYKNSKPFH 8
 |||||:
 Db 6 GYANSAFN 13

RESULT 16
 ABJ15069
 ID ABJ15069 standard; peptide; 14 AA.

XX ABJ15069;

XX 10-DEC-2002 (first entry)

XX Human 125P5C8 epitope #3695.

XX Human; 125P5C8; cancer; cytostatic; breast cancer; prostate cancer;
KW bladder cancer; kidney cancer; colon cancer; ovarian cancer; epitope.
XX
OS Homo sapiens.
XX
PN WO200272785-A2.
XX
PD 19-SEP-2002.
XX
PF 13-MAR-2002; 2002WO-US007855.
XX
PR 14-MAR-2001; 2001US-00809638.
XX
PA (AGEN-) AGENSYS INC.
XX
PI Faris M, Challita-Eid PM, Hubert RS, Afar DEH, Raitano AB, Ge W;
PI Morrison RK, Morrison K, Jakobovits A;
XX
DR WPI; 2002-713510/77.
XX
XX New composition comprising a substance that modulates the status of
PT 125P5C8 gene or a molecule that is modulated by 125P5C8, useful for
PT treating or preventing cancer that expresses or over expresses 125P5C8.
XX
PS Disclosure; Page 216; 274pp; English.
XX
CC The present invention relates to compositions comprising a substance that
CC modulates the status of 125P5C8 or a molecule that is modulated by
CC 125P5C8. The status of a cell that expresses 125P5C8 is modulated. The
CC composition is useful for treating cancer, particularly prostate,
CC bladder, kidney, colon, ovary or breast cancer. The 125P5C8 protein
CC and/or a nucleotide sequence encoding the protein is useful for
CC immunising a mammal against cancer. The present sequence is a 125P5C8
CC epitope shown in the exemplification of the invention
XX
SQ Sequence 14 AA;

Query Match 46.7%; Score 28; DB 5; Length 14;
Best Local Similarity 57.1%; Pred. No. 2e+02;
Matches 4; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 YKNSKPH 8
Db 4 YENTHFF 10

RESULT 17
AA69959
ID AAY69959 standard; peptide; 9 AA.
XX
AC AAY69959;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #39.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
PN WO9967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP003360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX

PI Itoh K, Gomi S;
XX
DR WPI; 2000-116932/10.
XX
PT Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 4; Page 61; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;

Query Match 45.0%; Score 27; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 FHRVI 11
Db 2 FHRVI 6

RESULT 18
ABR84746
ID ABR84746 standard; protein; 9 AA.
XX
AC ABR84746;
XX
DT 18-DEC-2003 (first entry)
XX
DE Bovine polypyrimidine tract binding protein conserved nonapeptide.
XX
KW Cow; polypyrimidine tract protein; isoform; RNA stability regulation;
KW immunosuppressive; allograft rejection; CD154; PTB.
XX
OS Bos taurus.
XX
PN WO2003061581-A2.
XX
PD 31-JUL-2003.
XX
PF 17-JAN-2003; 2003WO-US001623.
XX
PR 17-JAN-2002; 2002US-0349869P.
PR 02-JAN-2003; 2003US-0437779P.
XX
PA (DART-) DARTMOUTH COLLEGE.
XX
PI Rigby WFC;
XX
DR WPI; 2003-778776/73.
XX
PT A new polypyrimidine tract protein isoform useful for finding agents
PT which modulate its activity and to prevent or treat allograft rejection
PT or CD40 activation.
XX
PS Disclosure; Page 64; 0pp; English.
XX
CC The present invention provides the protein sequence of a polypyrimidine
CC tract protein isoform. Also provided are methods for modulating the
CC stability of a CD154 RNA. The methods are useful for increasing the
CC stability of a RNA, decreasing the stability of a RNA, preventing or
CC treating allograft rejection in a subject, inhibiting CD40 activation in
CC a subject, and identifying agents that modulate the level or activity of
CC a polypyrimidine tract protein. Agents which modulate the activity of a
CC polypyrimidine tract protein are useful to prevent or treat allograft
CC rejection or inhibit CD40 activation. The present sequence is a
CC nonapeptide conserved between the bovine and human polypyrimidine tract
CC protein
XX

```
SQ Sequence 9 AA;
Query Match 45.0%; Score 27; DB 7; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.4e+06;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 YKNSKFHR 9
| | | | |
Db 2 YGNSPLHR 9

RESULT 19
ADD88599
ID ADD88599 standard; peptide; 11 AA.
AC ADD88599;
XX
DT 29-JAN-2004 (first entry)
XX
DE Influenza virus H3N2 Replikin #4.
XX
KW vaccine; gene therapy; malaria; influenza; Replikin; haemagglutinin.
XX
OS Orthomyxoviridae.
XX
PN US2003180328-A1.
XX
PD 25-SEP-2003.
XX
PF 26-MAR-2002; 2002US-00105232.
XX
PR 27-MAR-2001; 2001US-0278761P.
PR 09-JUL-2001; 2001US-0303396P.
PR 26-OCT-2001; 2001US-00984057.
XX
PA (BOGO/) BOGOCH S.
PA (BOGO/) BOGOCH E S.
XX
PI Bogoch S, Bogoch ES;
XX
DR WPI; 2003-852213/79.
XX
PT New Replikin peptides of Plasmodium falciparum or influenza virus, useful
PT for diagnosing, preventing or treating influenza virus infection or
PT malaria.
XX
PS Disclosure; SEQ ID NO 266; 136pp; English.
XX
CC The invention relates to an isolated Plasmodium falciparum peptide or an
CC influenza virus peptide. The composition and methods are useful in
CC diagnosing, preventing or treating influenza virus infection or malaria.
CC Also disclosed is an influenza virus vaccine comprising at least one
CC isolated Replikin present in the haemagglutinin protein of an emerging
CC strain of influenza virus and a pharmaceutical carrier and/or adjuvant
CC and a malaria vaccine comprising at least one isolated P. falciparum
CC Replikin and a pharmaceutical carrier. The present sequence represents
CC the amino acid sequence of a Replikin sequence.
XX
SQ Sequence 11 AA;
Query Match 45.0%; Score 27; DB 7; Length 11;
Best Local Similarity 57.1%; Pred. No. 2.4e+02;
Matches 4; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 4 NSKFHRV 10
| | | | |
Db 3 NERFXHI 9

RESULT 20
AAW19409
ID AAW19409 standard; peptide; 11 AA.
XX
AC AAW19409;
XX
DT 04-SEP-1997 (first entry)
XX
DE Anti-fungal and anti-bacterial histatin-based peptide 117.
XX
KW Candida albicans; periodontitis; caries; tooth decay; oral infection;
KW vaginal infection; urethral infection; mucosal infection; ear infection;
KW respiratory infection; skin infection; ophthalmic infection;
KW bacterial disease; Streptococcus mutans; Porphyromonas gingivalis;
KW Clostridium histolyticum.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT Region 1..11
FT /note= "At least one amino acid must have a D-
FT configuration"
XX
PN WO9640768-A2.
XX
PD 19-DEC-1996.
XX
PF 07-JUN-1996; 96WO-US009374.
XX
PR 07-JUN-1995; 95US-00481888.
XX
PA (PERI-) PERIODONTIX INC.
PA (UYBO-) UNIV BOSTON.
XX
PI Oppenheim FG, Xu T, Roberts FD, Spacciapoli P, Friden PM;
XX
DR WPI; 1997-052232/05.
XX
PT Anti-fungal and anti-bacterial histatin-based peptide(s) - useful esp for
PT treating Candidal infections, periodontitis and caries.
XX
PS Claim 2; Fig 1; 72pp; English.
XX
CC The present sequence represents a specifically claimed peptide sequence,
CC peptide 117, where at least one amino acid is in the D-configuration. The
CC peptide preferably is modified by an acetyl or carbamyl addition at the N
CC -terminus and/or amidation at the C-terminus. The peptide, based on the
CC naturally occurring histidine-rich human histatins, have anti-fungal and
CC anti-bacterial activity and are useful in compositions for the treatment
CC of oral, vaginal, urethral, mucosal, respiratory, skin, ear and
CC ophthalmic fungal or bacterial infections. It is particularly effective
CC against local and systemic Candida albicans infection, against oral
CC bacterial diseases such as caries and periodontitis (by inhibiting e.g.
CC Streptococcus mutans and Porphyromonas gingivalis) and against
CC Clostridium histolyticum. The peptide has superior anti-fungal
CC (especially anti-Candidal) and anti-bacterial activity, particularly on a
CC weight basis, compared to the longer, naturally occurring histatins.
CC Peptides containing D-residues are also more resistant to degradation
CC than L-amino acid versions
XX
SQ Sequence 11 AA;
Query Match 44.2%; Score 26.5; DB 2; Length 11;
Best Local Similarity 75.0%; Pred. No. 3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 GYKNSKFH 8
| | | | |
Db 5 GYKR-KFH 11

RESULT 21
AAW19455
ID AAW19455 standard; peptide; 11 AA.
XX
AC AAW19455;
XX
```

DT 05-SEP-1997 (first entry)
XX Anti-fungal and anti-bacterial D-amino acid peptide 117.
DE
XX Candida albicans; peridontitis; caries; tooth decay; oral infection;
KW vaginal infection; urethral infection; mucosal infection; ear infection;
KW respiratory infection; skin infection; ophthalmic infection;
KW bacterial disease; Streptococcus mutans; Porphyromonas gingivalis;
KW Clostridium histolyticum.
XX
OS Synthetic.
OS
XX
FH Key Location/Qualifiers
FT Region 1. .11
FT /note= "At least one amino acid must have D-
FT configuration"
XX
PN WO9640770-A2.
XX
PD 19-DEC-1996.
XX
PF 07-JUN-1996; 96WO-US009962.
XX
PR 07-JUN-1995; 95US-00485273.
XX
PA (PERI-) PERIODONTIX INC.
PA (UYBO-) UNIV BOSTON.
XX
PI Oppenheim FG, Xu T, Spacciapoli P, Roberts FD, Friden PM;
XX WPI; 1997-052234/05.
DR
XX Anti-fungal and anti-bacterial D-amino acid histatins and histatin-based
PT peptide(s) - useful esp for treating Candidal infections, periodontitis
PT and caries.
XX
PS Claim 2; Fig 1; 63pp; English.
XX
CC The present sequence represents a specifically claimed example of an anti
CC -fungal and anti-bacterial D-amino acid histatin-based peptide 117, where
CC at least one amino acid in the peptide is in the D-configuration. The
CC peptide is preferably modified by an acetyl or carbamyl addition at the N
CC -terminus and/or amidation at the C-terminus. The novel D-amino acid-
CC containing peptide, based on the naturally occurring histidine-rich human
CC histatins, have anti-fungal and anti-bacterial activity and are useful in
CC compositions for the treatment of oral, vaginal, urethral, mucosal,
CC respiratory, skin, ear and ophthalmic fungal or bacterial infections. It
CC is particularly effective against local and systemic Candida albicans
CC infection, against oral bacterial diseases such as caries and
CC periodontitis (by inhibiting e.g. Streptococcus mutans and Porphyromonas
CC gingivalis) and against Clostridium histolyticum. The D-amino acid-
CC containing peptide has superior anti-fungal (especially anti-candidal)
CC and anti-bacterial activity, particularly on a weight basis, compared to
CC the natural L- amino acid forms of histatins and histatin-based peptides.
CC The presence of D-residues also makes the peptides more resistant to
CC degradation than corresponding L-amino acid versions
XX
SQ Sequence 11 AA;
Query Match 44.2%; Score 26.5; DB 2; Length 11;
Best Local Similarity 75.0%; Pred. No. 3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
QY 1 GYKNSKFH 8
||| |||
DB 5 GYKR-KFH 11
RESULT 22
AAW19415
ID AAW19415 standard; peptide; 12 AA.
XX
AC AAW19415;

XX 05-SEP-1997 (first entry)
XX Anti-fungal and anti-bacterial histatin-based peptide 113-F5.
DE
XX Candida albicans; peridontitis; caries; tooth decay; oral infection;
KW vaginal infection; urethral infection; mucosal infection; ear infection;
KW respiratory infection; skin infection; ophthalmic infection;
KW bacterial disease; Streptococcus mutans; Porphyromonas gingivalis;
KW Clostridium histolyticum.
XX
OS Synthetic.
OS
XX
FH Key Location/Qualifiers
FT Region 1. .12
FT /note= "At least one amino acid must have a D-
FT configuration"
XX
PN WO9640768-A2.
XX
PD 19-DEC-1996.
XX
PF 07-JUN-1996; 96WO-US009374.
XX
PR 07-JUN-1995; 95US-00481888.
XX
PA (PERI-) PERIODONTIX INC.
PA (UYBO-) UNIV BOSTON.
XX
PI Oppenheim FG, Xu T, Roberts FD, Spacciapoli P, Friden PM;
XX WPI; 1997-052232/05.
DR
XX Anti-fungal and anti-bacterial histatin-based peptide(s) - useful esp for
PT treating Candidal infections, periodontitis and caries.
PT
XX
PS Claim 2; Fig 1; 72pp; English.
XX
CC The present sequence represents a specifically claimed peptide sequence,
CC peptide 113-F5, where at least one amino acid is in the D-configuration.
CC The peptide preferably is modified by an acetyl or carbamyl addition at
CC the N-terminus and/or amidation at the C-terminus. The peptide, based on
CC the naturally occurring histidine-rich human histatins, have anti- fungal
CC and anti-bacterial activity and are useful in compositions for the
CC treatment of oral, vaginal, urethral, mucosal, respiratory, skin, ear and
CC ophthalmic fungal or bacterial infections. It is particularly effective
CC against local and systemic Candida albicans infection, against oral
CC bacterial diseases such as caries and periodontitis (by inhibiting e.g.
CC Streptococcus mutans and Porphyromonas gingivalis) and against
CC Clostridium histolyticum. The peptide has superior anti-fungal
CC (especially anti-Candidal) and anti-bacterial activity, particularly on a
CC weight basis, compared to the longer, naturally occurring histatins.
CC Peptides containing D-residues are also more resistant to degradation
CC than L-amino acid versions
XX
SQ Sequence 12 AA;
Query Match 44.2%; Score 26.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
QY 1 GYKNSKFH 8
||| |||
DB 6 GYKR-KFH 12
RESULT 23
AAW19417
ID AAW19417 standard; peptide; 12 AA.
XX
AC AAW19417;
XX
DT 05-SEP-1997 (first entry)

XX DE Anti-fungal and anti-bacterial histatin-based peptide 113-F4.5.
XX DE
XX KW Candida albicans; peridontitis; caries; tooth decay; oral infection;
XX KW vaginal infection; urethral infection; mucosal infection; ear infection;
XX KW respiratory infection; skin infection; ophthalmic infection;
XX KW bacterial disease; Streptococcus mutans; Porphyromonas gingivalis;
XX KW Clostridium histolyticum.
XX OS Synthetic.
XX OS
XX FH Key Location/Qualifiers
XX FT Region 1. .12
XX FT /note= "At least one amino acid must have a D-
XX FT configuration"
XX PN WO9640768-A2.
XX PD 19-DEC-1996.
XX PF 07-JUN-1996; 96WO-US009374.
XX PR 07-JUN-1995; 95US-00481888.
XX PR (PERI-) PERIODONTIX INC.
XX PA (UYBO-) UNIV BOSTON.
XX PI Oppenheim FG, Xu T, Roberts FD, Spacciapoli P, Friden PM;
XX DR WPI; 1997-052232/05.
XX DR Anti-fungal and anti-bacterial histatin-based peptide(s) - useful esp for
XX PT treating Candidal infections, periodontitis and caries.
XX PT
XX PS Claim 2; Fig 1; 72pp; English.
XX PS
XX CC The present sequence represents a specifically claimed peptide sequence,
XX CC peptide 113-F4.5, where at least one amino acid is in the D-
XX CC configuration. The peptide preferably is modified by an acetyl or
XX CC carbamyl addition at the N-terminus and/or amidation at the C-terminus.
XX CC The peptide, based on the naturally occurring histidine-rich human
XX CC histatins, have anti-fungal and anti-bacterial activity and are useful in
XX CC compositions for the treatment of oral, vaginal, urethral, mucosal,
XX CC respiratory, skin, ear and ophthalmic fungal or bacterial infections. It
XX CC is particularly effective against local and systemic Candida albicans
XX CC infection, against oral bacterial diseases such as caries and
XX CC periodontitis (by inhibiting e.g. Streptococcus mutans and Porphyromonas
XX CC gingivalis) and against Clostridium histolyticum. The peptide has
XX CC superior anti-fungal (especially anti-Candidal) and anti-bacterial
XX CC activity, particularly on a weight basis, compared to the longer,
XX CC naturally occurring histatins. Peptides containing D-residues are also
XX CC more resistant to degradation than L-amino acid versions
XX SQ Sequence 12 AA;
SQ Query Match 44.2%; Score 26.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
QY 1 GYKNSKFK 8
Db ||| |||
6 GYKR-KFH 12
RESULT 24
AAW19414
ID AAW19414 standard; peptide; 12 AA.
XX AC AAW19414;
XX DT 05-SEP-1997 (first entry)
XX DE Anti-fungal and anti-bacterial histatin-based peptide 113-F4.

XX KW Candida albicans; peridontitis; caries; tooth decay; oral infection;
XX KW vaginal infection; urethral infection; mucosal infection; ear infection;
XX KW respiratory infection; skin infection; ophthalmic infection;
XX KW bacterial disease; Streptococcus mutans; Porphyromonas gingivalis;
XX KW Clostridium histolyticum.
XX OS Synthetic.
XX OS
XX FH Key Location/Qualifiers
XX FT Region 1. .12
XX FT /note= "At least one amino acid must have a D-
XX FT configuration"
XX PN WO9640768-A2.
XX PD 19-DEC-1996.
XX PF 07-JUN-1996; 96WO-US009374.
XX PR 07-JUN-1995; 95US-00481888.
XX PR (PERI-) PERIODONTIX INC.
XX PA (UYBO-) UNIV BOSTON.
XX PI Oppenheim FG, Xu T, Roberts FD, Spacciapoli P, Friden PM;
XX DR WPI; 1997-052232/05.
XX DR Anti-fungal and anti-bacterial histatin-based peptide(s) - useful esp for
XX PT treating Candidal infections, periodontitis and caries.
XX PT
XX PS Claim 2; Fig 1; 72pp; English.
XX PS
XX CC The present sequence represents a specifically claimed peptide sequence,
XX CC peptide 113-F4, where at least one amino acid is in the D-configuration.
XX CC The peptide preferably is modified by an acetyl or carbamyl addition at
XX CC the N-terminus and/or amidation at the C-terminus. The peptide, based on
XX CC the naturally occurring histidine-rich human histatins, have anti-fungal
XX CC and anti-bacterial activity and are useful in compositions for the
XX CC treatment of oral, vaginal, urethral, mucosal, respiratory, skin, ear and
XX CC ophthalmic fungal or bacterial infections. It is particularly effective
XX CC against local and systemic Candida albicans infection, against oral
XX CC bacterial diseases such as caries and periodontitis (by inhibiting e.g.
XX CC Streptococcus mutans and Porphyromonas gingivalis) and against
XX CC Clostridium histolyticum. The peptide has superior anti-fungal
XX CC (especially anti-Candidal) and anti-bacterial activity, particularly on a
XX CC weight basis, compared to the longer, naturally occurring histatins.
XX CC Peptides containing D-residues are also more resistant to degradation
XX CC than L-amino acid versions
XX SQ Sequence 12 AA;
SQ Query Match 44.2%; Score 26.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
QY 1 GYKNSKFK 8
Db ||| |||
6 GYKR-KFH 12
RESULT 25
AAW19407
ID AAW19407 standard; peptide; 12 AA.
XX AC AAW19407;
XX DT 04-SEP-1997 (first entry)
XX DE Anti-fungal and anti-bacterial histatin-based peptide 113.
XX KW Candida albicans; peridontitis; caries; tooth decay; oral infection;

KW vaginal infection; urethral infection; mucosal infection; ear infection;
KW respiratory infection; skin infection; ophthalmic infection;
KW bacterial disease; Streptococcus mutans; Porphyromonas gingivalis;
KW Clostridium histolyticum.

XX Synthetic.

OS
XX
FH Key Location/Qualifiers
FT Region 1. .12
FT /note= "At least one amino acid must have a D-
FT configuration"

XX WO9640768-A2.

XX 19-DEC-1996.

XX 07-JUN-1996; 96WO-US009374.

XX 07-JUN-1995; 95US-00481888.

XX (PERI-) PERIODONTIX INC.
XX (UYBO-) UNIV BOSTON.

XX Oppenheim FG, Xu T, Roberts FD, Spacciapoli P, Friden PM;

XX WPI; 1997-052232/05.

XX Anti-fungal and anti-bacterial histatin-based peptide(s) - useful esp for
XX treating Candidal infections, periodontitis and caries.

XX Claim 2; Fig 1; 72pp; English.

XX The present sequence represents a specifically claimed peptide sequence,
XX peptide 113, where at least one amino acid is in the D-configuration. The
XX peptide preferably is modified by an acetyl or carbamyl addition at the N
XX -terminus and/or amidation at the C-terminus. The peptide, based on the
XX naturally occurring histidine-rich human histatins, have anti- fungal and
XX anti-bacterial activity and are useful in compositions for the treatment
XX of oral, vaginal, urethral, mucosal, respiratory, skin, ear and
XX ophthalmic fungal or bacterial infections. It is particularly effective
XX against local and systemic Candida albicans infection, against oral
XX bacterial diseases such as caries and periodontitis (by inhibiting e.g.
XX Streptococcus mutans and Porphyromonas gingivalis) and against
XX Clostridium histolyticum. The peptide has superior anti-fungal
XX (especially anti-Candidal) and anti-bacterial activity, particularly on a
XX weight basin, compared to the longer, naturally occurring histatins.
XX Peptides containing D-residues are also more resistant to degradation
XX than L-amino acid versions

XX Sequence 12 AA;

Query Match 44.2%; Score 26.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 GYKNSKPFH 8
||| |||
Db 6 GYKR-KFH 12

RESULT 26

AAW19426

ID AAW19426 standard; peptide; 12 AA.

XX AC AAW19426;

XX 05-SEP-1997 (first entry)

XX Anti-fungal and anti-bacterial histatin-based peptide 113-Q3.9.

XX Candida albicans; periodontitis; caries; tooth decay; oral infection;
XX vaginal infection; urethral infection; mucosal infection; ear infection;
KW respiratory infection; skin infection; ophthalmic infection;
KW Clostridium histolyticum.

KW bacterial disease; Streptococcus mutans; Porphyromonas gingivalis;
KW Clostridium histolyticum.

OS Synthetic.

XX
FH Key Location/Qualifiers
FT Region 1. .12
FT /note= "At least one amino acid must have a D-
FT configuration"

XX WO9640768-A2.

XX 19-DEC-1996.

XX 07-JUN-1996; 96WO-US009374.

XX 07-JUN-1995; 95US-00481888.

XX (PERI-) PERIODONTIX INC.
XX (UYBO-) UNIV BOSTON.

XX Oppenheim FG, Xu T, Roberts FD, Spacciapoli P, Friden PM;

XX WPI; 1997-052232/05.

XX Anti-fungal and anti-bacterial histatin-based peptide(s) - useful esp for
XX treating Candidal infections, periodontitis and caries.

XX Claim 2; Fig 1; 72pp; English.

XX The present sequence represents a specifically claimed peptide sequence,
XX peptide 113-Q3.9, where at least one amino acid is in the D-
XX configuration. The peptide preferably is modified by an acetyl or
XX carbamyl addition at the N-terminus and/or amidation at the C-terminus.
XX The peptide, based on the naturally occurring histidine-rich human
XX histatins, have anti-fungal and anti-bacterial activity and are useful in
XX compositions for the treatment of oral, vaginal, urethral, mucosal,
XX respiratory, skin, ear and ophthalmic fungal or bacterial infections. It
XX is particularly effective against local and systemic Candida albicans
XX infection, against oral bacterial diseases such as caries and
XX periodontitis (by inhibiting e.g. Streptococcus mutans and Porphyromonas
XX gingivalis) and against Clostridium histolyticum. The peptide has
XX superior anti-fungal (especially anti-Candidal) and anti-bacterial
XX activity, particularly on a weight basin, compared to the longer,
XX naturally occurring histatins. Peptides containing D-residues are also
XX more resistant to degradation than L-amino acid versions

XX Sequence 12 AA;

Query Match 44.2%; Score 26.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 GYKNSKPFH 8
||| |||
Db 6 GYK-QKPFH 12

RESULT 27

AAW19454

ID AAW19454 standard; peptide; 12 AA.

XX AC AAW19454;

XX 05-SEP-1997 (first entry)

XX Anti-fungal and anti-bacterial D-amino acid peptide 113.

XX Candida albicans; periodontitis; caries; tooth decay; oral infection;
KW vaginal infection; urethral infection; mucosal infection; ear infection;
KW respiratory infection; skin infection; ophthalmic infection;
KW bacterial disease; Streptococcus mutans; Porphyromonas gingivalis;
KW Clostridium histolyticum.

XX OS Synthetic.
XX OS Key
FH FT Region
FT FT Location/Qualifiers
FT FT 1..12
XX FT /note= "At least one amino acid must have D-configuration"
XX PN WO9640770-A2.
XX PD 19-DEC-1996.
XX PF 07-JUN-1996; 96WO-US009962.
XX PR 07-JUN-1995; 95US-00485273.
XX PA (PERI-) PERIODONTIX INC.
XX PA (UYBO-) UNIV BOSTON.
XX PI Oppenheim FG, Xu T, Spacciapoli P, Roberts FD, Friden PM;
XX DR WPI; 1997-052234/05.
XX

PT Anti-fungal and anti-bacterial D-amino acid histatins and histatin-based
PT peptide(s) - useful esp for treating Candidal infections, periodontitis
PT and caries.

PS Claim 2; Fig 1; 63pp; English.

XX The present sequence represents a specifically claimed example of an anti
CC -fungal and anti-bacterial D-amino acid histatin-based peptide 113, where
CC at least one amino acid in the peptide is in the D-configuration. The
CC peptide is preferably modified by an acetyl or carbamyl addition at the N
CC -terminus and/or amidation at the C-terminus. The novel D-amino acid-
CC containing peptide, based on the naturally occurring histidine-rich human
CC histatins, have anti-fungal and anti-bacterial activity and are useful in
CC compositions for the treatment of oral, vaginal, urethral, mucosal,
CC respiratory, skin, ear and ophthalmic fungal or bacterial infections. It
CC is particularly effective against local and systemic Candida albicans
CC infection, against oral bacterial diseases such as caries and
CC periodontitis (by inhibiting e.g. Streptococcus mutans and Porphyromonas
CC gingivalis) and against Clostridium histolyticum. The D-amino acid-
CC containing peptide has superior anti-fungal (especially anti-candidal)
CC and anti-bacterial activity, particularly on a weight basis, compared to
CC the natural L- amino acid forms of histatins and histatin-based peptides.
CC The presence of D-residues also makes the peptides more resistant to
CC degradation than corresponding L-amino acid versions

XX Sequence 12 AA;

Query Match 44.2%; Score 26.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 GYKNSKFH 8
||| |||
Db 6 GYKR-KFH 12

RESULT 28
AAW19461
ID AAW19461 standard; peptide; 12 AA.

XX AAW19461;

XX 05-SEP-1997 (first entry)

XX Anti-fungal and anti-bacterial D-amino acid peptide 113-F5.

XX Candida albicans; periodontitis; caries; tooth decay; oral infection;
KW vaginal infection; urethral infection; mucosal infection; ear infection;
KW respiratory infection; skin infection; ophthalmic infection;
KW bacterial disease; Streptococcus mutans; Porphyromonas gingivalis;

KW Clostridium histolyticum.
XX OS Synthetic.
XX OS Key
FH FT Region
FT FT Location/Qualifiers
FT FT 1..12
XX FT /note= "At least one amino acid must have D-configuration"

XX PN WO9640770-A2.

XX PD 19-DEC-1996.

XX PF 07-JUN-1996; 96WO-US009962.

XX PR 07-JUN-1995; 95US-00485273.

XX PA (PERI-) PERIODONTIX INC.

XX PA (UYBO-) UNIV BOSTON.

XX PI Oppenheim FG, Xu T, Spacciapoli P, Roberts FD, Friden PM;

XX DR WPI; 1997-052234/05.

XX Anti-fungal and anti-bacterial D-amino acid histatins and histatin-based
PT peptide(s) - useful esp for treating Candidal infections, periodontitis
PT and caries.

PS Claim 2; Fig 1; 63pp; English.

XX The present sequence represents a specifically claimed example of an anti
CC -fungal and anti-bacterial D-amino acid histatin-based peptide 113-F5,
CC where at least one amino acid in the peptide is in the D-configuration.
CC The peptide is preferably modified by an acetyl or carbamyl addition at
CC the N-terminus and/or amidation at the C-terminus. The novel D-amino acid
CC containing peptide, based on the naturally occurring histidine-rich
CC human histatins, have anti-fungal and anti-bacterial activity and are
CC useful in compositions for the treatment of oral, vaginal, urethral,
CC mucosal, respiratory, skin, ear and ophthalmic fungal or bacterial
CC infections. It is particularly effective against local and systemic
CC Candida albicans infection, against oral bacterial diseases such as
CC caries and periodontitis (by inhibiting e.g. Streptococcus mutans and
CC Porphyromonas gingivalis) and against Clostridium histolyticum. The D-
CC amino acid-containing peptide has superior anti-fungal (especially anti-
CC candidal) and anti-bacterial activity, particularly on a weight basis,
CC compared to the natural L- amino acid forms of histatins and histatin-
CC based peptides. The presence of D-residues also makes the peptides more
CC resistant to degradation than corresponding L-amino acid versions

XX Sequence 12 AA;

Query Match 44.2%; Score 26.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 GYKNSKFH 8
||| |||
Db 6 GYKR-KFH 12

RESULT 29
AAW19460
ID AAW19460 standard; peptide; 12 AA.

XX AAW19460;

XX 05-SEP-1997 (first entry)

XX Anti-fungal and anti-bacterial D-amino acid peptide 113-F4.

XX Candida albicans; periodontitis; caries; tooth decay; oral infection;
KW vaginal infection; urethral infection; mucosal infection; ear infection;
KW respiratory infection; skin infection; ophthalmic infection;

KW bacterial disease; Streptococcus mutans; Porphyromonas gingivalis;
KW Clostridium histolyticum.
XX Synthetic.
OS
XX
XX
FH Key Location/Qualifiers
FT Region 1. .12
FT /note= "At least one amino acid must have D-
FT configuration"
XX
XX WO9640770-A2.
XX
XX 19-DEC-1996.
XX
XX 07-JUN-1996; 96WO-US009962.
XX
XX 07-JUN-1995; 95US-00485273.
XX
XX {PERI-) PERIODONTIX INC.
XX PA (UYBO-) UNIV BOSTON.
XX
XX Oppenheim FG, Xu T, Spacciapoli P, Roberts FD, Friden PM;
XX WPI; 1997-052234/05.
XX
XX Anti-fungal and anti-bacterial D-amino acid histatins and histatin-based
PT peptide(s) - useful esp for treating Candidal infections, periodontitis
PT and caries.
XX
XX Claim 2; Fig 1; 63pp; English.
XX
XX The present sequence represents a specifically claimed example of an anti
CC -fungal and anti-bacterial D-amino acid histatin-based peptide 113-F4,
CC where at least one amino acid in the peptide is in the D-configuration.
CC The peptide is preferably modified by an acetyl or carbamyl addition at
CC the N-terminus and/or amidation at the C-terminus. The novel D-amino acid
CC -containing peptide, based on the naturally occurring histidine-rich
CC human histatins, have anti-fungal and anti-bacterial activity and are
CC useful in compositions for the treatment of oral, vaginal, urethral,
CC mucosal, respiratory, skin, ear and ophthalmic fungal or bacterial
CC infections. It is particularly effective against local and systemic
CC Candida albicans infection, against oral bacterial diseases such as
CC Caries and periodontitis (by inhibiting e.g. Streptococcus mutans and
CC Porphyromonas gingivalis) and against Clostridium histolyticum. The D-
CC amino acid-containing peptide has superior anti-fungal (especially anti-
CC candidal) and anti-bacterial activity, particularly on a weight basis,
CC compared to the natural L- amino acid forms of histatins and histatin-
CC based peptides. The presence of D-residues also makes the peptides more
CC resistant to degradation than corresponding L-amino acid versions
XX
SQ Sequence 12 AA;
Query Match 44.2%; Score 26.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
QY 1 GYKNSKPH 8
Db |||| ||||
6 GYKR-KFH 12
RESULT 30
AAW19463
ID AAW19463 standard; peptide; 12 AA.
XX
XX AAW19463;
XX
XX 05-SEP-1997 (first entry)
XX
XX Anti-fungal and anti-bacterial D-amino acid peptide 113-F4.5.
XX
XX Candida albicans; periodontitis; caries; tooth decay; oral infection;
KW vaginal infection; urethral infection; mucosal infection; ear infection;

KW respiratory infection; skin infection; ophthalmic infection;
KW bacterial disease; Streptococcus mutans; Porphyromonas gingivalis;
KW Clostridium histolyticum.
XX Synthetic.
OS
XX
XX
FH Key Location/Qualifiers
FT Region 1. .12
FT /note= "At least one amino acid must have D-
FT configuration"
XX
XX WO9640770-A2.
XX
XX 19-DEC-1996.
XX
XX 07-JUN-1996; 96WO-US009962.
XX
XX 07-JUN-1995; 95US-00485273.
XX
XX {PERI-) PERIODONTIX INC.
XX PA (UYBO-) UNIV BOSTON.
XX
XX Oppenheim FG, Xu T, Spacciapoli P, Roberts FD, Friden PM;
XX WPI; 1997-052234/05.
XX
XX Anti-fungal and anti-bacterial D-amino acid histatins and histatin-based
PT peptide(s) - useful esp for treating Candidal infections, periodontitis
PT and caries.
XX
XX Claim 2; Fig 1; 63pp; English.
XX
XX The present sequence represents a specifically claimed example of an anti
CC -fungal and anti-bacterial D-amino acid histatin-based peptide 113-F4.5,
CC where at least one amino acid in the peptide is in the D-configuration.
CC The peptide is preferably modified by an acetyl or carbamyl addition at
CC the N-terminus and/or amidation at the C-terminus. The novel D-amino acid
CC -containing peptide, based on the naturally occurring histidine-rich
CC human histatins, have anti-fungal and anti-bacterial activity and are
CC useful in compositions for the treatment of oral, vaginal, urethral,
CC mucosal, respiratory, skin, ear and ophthalmic fungal or bacterial
CC infections. It is particularly effective against local and systemic
CC Candida albicans infection, against oral bacterial diseases such as
CC Caries and periodontitis (by inhibiting e.g. Streptococcus mutans and
CC Porphyromonas gingivalis) and against Clostridium histolyticum. The D-
CC amino acid-containing peptide has superior anti-fungal (especially anti-
CC candidal) and anti-bacterial activity, particularly on a weight basis,
CC compared to the natural L- amino acid forms of histatins and histatin-
CC based peptides. The presence of D-residues also makes the peptides more
CC resistant to degradation than corresponding L-amino acid versions
XX
SQ Sequence 12 AA;
Query Match 44.2%; Score 26.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
QY 1 GYKNSKPH 8
Db |||| ||||
6 GYKR-KFH 12
RESULT 31
AAW19472
ID AAW19472 standard; peptide; 12 AA.
XX
XX AAW19472;
XX
XX 05-SEP-1997 (first entry)
XX
XX Anti-fungal and anti-bacterial D-amino acid peptide 113-Q3.9.
XX
KW Candida albicans; periodontitis; caries; tooth decay; oral infection;

KW vaginal infection; urethral infection; mucosal infection; ear infection;
KW respiratory infection; skin infection; ophthalmic infection;
KW bacterial disease; Streptococcus mutans; Porphyromonas gingivalis;
KW Clostridium histolyticum.
XX
XX Synthetic.
OS
FH Key Location/Qualifiers
FT Region 1. .12
FT /note= "At least one amino acid must have D-
FT configuration"
XX
XX
PN WO9640770-A2.
XX
PD 19-DEC-1996.
XX
XX
PF 07-JUN-1996; 96WO-US009962.
XX
XX 07-JUN-1995; 95US-00485273.
XX
PA (PERI-) PERIODONTIX INC.
PA (UYBO-) UNIV BOSTON.
XX
XX Oppenheim FG, Xu T, Spacciapoli P, Roberts FD, Friden PM;
PI WPI; 1997-052234/05.
XX
DR Anti-fungal and anti-bacterial D-amino acid histatins and histatin-based
XX peptide(s) - useful esp for treating Candidal infections, periodontitis
PT and caries.
PT
XX Claim 2; Fig 1; 63pp; English.
PS The present sequence represents a specifically claimed example of an anti
XX -fungal and anti-bacterial D-amino acid histatin-based peptide 113-Q3.9,
CC where at least one amino acid in the peptide is in the D-configuration.
CC The peptide is preferably modified by an acetyl or carbamyl addition at
CC the N-terminus and/or amidation at the C-terminus. The novel D-amino acid
CC -containing peptide, based on the naturally occurring histidine-rich
CC human histatins, have anti-fungal and anti-bacterial activity and are
CC useful in compositions for the treatment of oral, vaginal, urethral,
CC mucosal, respiratory, skin, ear and ophthalmic fungal or bacterial
CC infections. It is particularly effective against local and systemic
CC Candida albicans infection, against oral bacterial diseases such as
CC Porphyromonas gingivalis) and against Clostridium histolyticum. The D-
CC amino acid-containing peptide has superior anti-fungal (especially anti-
CC candidal) and anti-bacterial activity, particularly on a weight basis,
CC compared to the natural L- amino acid forms of histatins and histatin-
CC based peptides. The presence of D-residues also makes the peptides more
CC resistant to degradation than corresponding L-amino acid versions
XX
SQ Sequence 12 AA;
Query Match 44.2%; Score 26.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
QY 1 GYKNSKPFH 8
Db |||| ||||
6 GYK-QKPH 12
RESULT 32
AAAY25141
ID AAY25141 standard; peptide; 12 AA.
XX
AC AAY25141;
XX
DT 27-AUG-1999 (first entry)
XX
DE Antibacterial and antifungal peptide 2.
XX

KW Antifungal; antibacterial; treatment; infection; candidal; ophthalmic;
KW viral vaginal; urethral; mucosal; respiratory; skin; ear; oral.
XX Unidentified.
XX
PN WO9931123-A1.
XX
PD 24-JUN-1999.
XX
PF 14-DEC-1998; 98WO-US026513.
XX
PR 18-DEC-1997; 97US-00993235.
XX
XX (PERI-) PERIODONTIX INC.
PA (UYBO-) UNIV BOSTON.
XX
XX Roberts FD, Spacciapoli P, Friden PM, Oppenheim FG, Xu T;
PI WPI; 1999-395161/33.
XX
DR Antibacterial and antifungal peptides.
XX
PT Disclosure; Page 7; 31pp; English.
PS
XX This invention describes novel substantially pure antibacterial and
CC antifungal peptides (A) containing between 13 and 20 amino acids, where
CC the peptide has the amino acid sequence: R1-R2-R3-R4-R5-R6-R7-R8- R9-R10-
CC R11-R12-R13-R14-R15-R16-R17-R18-R19-R20-R21-R22-R23; where: R1 is Asp or
CC absent; R2 and R20 are Ser or absent; R3, R18, R19 and R21 are His or
CC absent; R4 is Ala; R5, R6, R9, R12, R13, are Lys, Gln, Arg or another
CC basic amino acid; R7, R8 and R15 are His, Phe, Tyr, Leu, another
CC hydrophobic amino acid, or is absent; R10 is Tyr; R16 is Glu or absent;
CC R17 is Lys or absent; R22 is Arg or absent; R23 is Gly or absent; where
CC Gln cannot simultaneously occupy positions R5, R6, R12, and R13 of the
CC amino acid sequence. (A) can be used to treat fungal or bacterial
CC infection in a mammal. The peptides are particularly used to treat
CC candidal infection, as well as bacterial and viral infections, especially
CC vaginal, urethral, mucosal, respiratory, skin, ear, oral, or ophthalmic
CC infections. The infections that can be treated include those caused by
CC Candida albicans, Actinomyces actinomycetemcomitans, Actinomyces
CC viscosus, Bacteriodes forsythus, Bacteriodes gracilis, Bacteriodes
CC ureolyticus, Campylobacter concisus, Campylobacter rectus, Campylobacter
CC showae, Campylobacter sputorum, Capnocytophaga gingivalis, Capnocytophaga
CC ochracea, Capnocytophaga sputigena, Clostridium histolyticum, Eikenella
CC corrodens, Eubacterium nodatum, Fusobacterium nucleatum, Fusobacterium
CC periodonticum, Peptostreptococcus nicros, Porphyromonas endodontalis,
CC Porphyromonas gingivalis, Prevotella intermedia, Prevotella nigrescens,
CC Propionibacterium acnes, Pseudomonas aeruginosa, and those caused by
CC various Staphylococcal and Streptococcal species. AAY25140-Y25149 are
CC peptides used in the description of the invention
XX
SQ Sequence 12 AA;
Query Match 44.2%; Score 26.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
QY 1 GYKNSKPFH 8
Db |||| ||||
6 GYKR-KFH 12
RESULT 33
AAAY25143
ID AAY25143 standard; peptide; 12 AA.
XX
AC AAY25143;
XX
XX 27-AUG-1999 (first entry)
XX
DE Antibacterial and antifungal peptide 4.
XX
KW Antifungal; antibacterial; treatment; infection; candidal; ophthalmic;

KW viral vaginal; urethral; mucosal; respiratory; skin; ear; oral.

XX Unidentified.

XX WO9931123-A1.

PD 24-JUN-1999.

XX 14-DEC-1998; 98WO-US026513.

XX 18-DEC-1997; 97US-00993235.

XX (PERI-) PERIODONTIX INC.

PA (UYBO-) UNIV BOSTON.

XX Roberts FD, Spacciapoli P, Friden PM, Oppenheim FG, Xu T;

PI WPI; 1999-395161/33.

XX Antibacterial and antifungal peptides.

PS Disclosure; Page 7; 31pp; English.

XX This invention describes novel substantially pure antibacterial and antifungal peptides (A) containing between 13 and 20 amino acids, where the peptide has the amino acid sequence: R1-R2-R3-R4-R5-R6-R7-R8- R9-R10- R11-R12-R13-R14-R15-R16-R17-R18-R19-R20-R21-R22-R23; where: R1 is Asp or absent; R2 and R20 are Ser or absent; R3, R18, R19 and R21 are His or absent; R4 is Ala; R5, R6, R9, R12, R13, are Lys, Gln, Arg or another basic amino acid; R7, R8 and R15 are His, Phe, Tyr, Leu, another hydrophobic amino acid, or is absent; R10 is Tyr; R16 is Glu or absent; R17 is Lys or absent; R22 is Arg or absent; R23 is Gly or absent; where Gln cannot simultaneously occupy positions R5, R6, R12, and R13 of the amino acid sequence. (A) can be used to treat fungal or bacterial infection in a mammal. The peptides are particularly used to treat candidal infection, as well as bacterial and viral infections, especially vaginal, urethral, mucosal, respiratory, skin, ear, oral, or ophthalmic infections. The infections that can be treated include those caused by Candida albicans, Actinomyces actinomycetemcomitans, Actinomyces viscosus, Bacteriodes forsythus, Bacteriodes gracilis, Bacteriodes ureolyticus, Campylobacter concisus, Campylobacter rectus, Campylobacter showae, Campylobacter sputorum, Capnocytophaga gingivalis, Capnocytophaga ochracea, Capnocytophaga sputigena, Clostridium histolyticum, Eikenella corrodens, Eubacterium nodatum, Fusobacterium nucleatum, Fusobacterium peridonticum, Peptostreptococcus niros, Porphyromonas endodontalis, Porphyromonas gingivalis, Prevotella intermedia, Prevotella nigrescens, Propionibacterium acnes, Pseudomonas aeruginosa, and those caused by various Staphylococcal and Streptococcal species. AAY25140-Y25149 are peptides used in the description of the invention

XX Sequence 12 AA;

Query Match 44.2%; Score 26.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 GYKNSKFH 8
||| |||
Db 6 GYKR-KFH 12

RESULT 34

AAY25140
ID AAY25140 standard; peptide; 12 AA.

XX AAY25140;

XX 27-AUG-1999 (first entry)

DE Antibacterial and antifungal peptide 1.

XX Antifungal; antibacterial; treatment; infection; candidal; ophthalmic;
KW viral vaginal; urethral; mucosal; respiratory; skin; ear; oral.

XX Unidentified.

XX WO9931123-A1.

XX 24-JUN-1999.

XX 14-DEC-1998; 98WO-US026513.

XX 18-DEC-1997; 97US-00993235.

XX (PERI-) PERIODONTIX INC.

PA (UYBO-) UNIV BOSTON.

XX Roberts FD, Spacciapoli P, Friden PM, Oppenheim FG, Xu T;

PI WPI; 1999-395161/33.

XX Antibacterial and antifungal peptides.

PS Disclosure; Page 7; 31pp; English.

XX This invention describes novel substantially pure antibacterial and antifungal peptides (A) containing between 13 and 20 amino acids, where the peptide has the amino acid sequence: R1-R2-R3-R4-R5-R6-R7-R8- R9-R10- R11-R12-R13-R14-R15-R16-R17-R18-R19-R20-R21-R22-R23; where: R1 is Asp or absent; R2 and R20 are Ser or absent; R3, R18, R19 and R21 are His or absent; R4 is Ala; R5, R6, R9, R12, R13, are Lys, Gln, Arg or another basic amino acid; R7, R8 and R15 are His, Phe, Tyr, Leu, another hydrophobic amino acid, or is absent; R10 is Tyr; R16 is Glu or absent; R17 is Lys or absent; R22 is Arg or absent; R23 is Gly or absent; where Gln cannot simultaneously occupy positions R5, R6, R12, and R13 of the amino acid sequence. (A) can be used to treat fungal or bacterial infection in a mammal. The peptides are particularly used to treat candidal infection, as well as bacterial and viral infections, especially vaginal, urethral, mucosal, respiratory, skin, ear, oral, or ophthalmic infections. The infections that can be treated include those caused by Candida albicans, Actinomyces actinomycetemcomitans, Actinomyces viscosus, Bacteriodes forsythus, Bacteriodes gracilis, Bacteriodes ureolyticus, Campylobacter concisus, Campylobacter rectus, Campylobacter showae, Campylobacter sputorum, Capnocytophaga gingivalis, Capnocytophaga ochracea, Capnocytophaga sputigena, Clostridium histolyticum, Eikenella corrodens, Eubacterium nodatum, Fusobacterium nucleatum, Fusobacterium peridonticum, Peptostreptococcus niros, Porphyromonas endodontalis, Porphyromonas gingivalis, Prevotella intermedia, Prevotella nigrescens, Propionibacterium acnes, Pseudomonas aeruginosa, and those caused by various Staphylococcal and Streptococcal species. AAY25140-Y25149 are peptides used in the description of the invention

XX Sequence 12 AA;

Query Match 44.2%; Score 26.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 GYKNSKFH 8
||| |||
Db 6 GYKR-KFH 12

RESULT 35

AAB11990
ID AAB11990 standard; peptide; 12 AA.

XX AAB11990;

XX 24-NOV-2000 (first entry)

DE Histatin-related peptide, P-113-R3.9K.

XX Histatin-related peptide; cystic fibrosis; Pseudomonas aeruginosa;
KW antibiotic resistance; pulmonary infection; antibacterial; antibiotic.

OS Homo sapiens.
OS Synthetic.
FH Key Location/Qualifiers
FT Modified-site 12
FT /note= "C-terminal amide"
XX
PN WO200040204-A2.
XX
XX 13-JUL-2000.
XX
XX 07-JAN-2000; 2000WO-US000480.
XX
XX 08-JAN-1999; 99US-002226666.
XX
XX (PERI-) PERIODONTIX INC.
XX
XX Spacciapoli P, Rothstein DM, Friden PM;
PI
XX
XX WPI; 2000-465852/40.
XX
XX Treating cystic fibrosis and combating Pseudomonas and other pulmonary
PT infections in a mammal comprises administering histatin or a fragment of
PT it.
XX
PS Example 6; Page 13; 27pp; English.

XX The invention relates to treating cystic fibrosis via the administration
CC of a histatin, a fragment of histatin, or a histatin-related peptide. The
CC peptide that is administered contains between 8 and 20 amino acids and
CC has the sequence: X1-X2-X3-X4-X5-X6-X7-X8-X9-X10-X11-X12-X13-X14-X15-X16-
CC X17-X18-X19-X20- X21-X22-X23 where X1 is Asp or absent; X2 is Ser or
CC absent; X3 is His or absent; X4 is Ala, His, Leu or absent; X5 is Lys,
CC Gln, Arg, Orn, or another basic amino acid; X6 is Arg, Gln, Lys, or
CC another basic amino acid; X7 is His, Phe, Tyr Leu, or another hydrophobic
CC amino acid; X8 is His, Phe, Tyr Leu, or another hydrophobic amino acid;
CC X9 is Gly, Lys, Arg, Ser, or a basic amino acid; X10 is Tyr; X11 is Lys,
CC His, Phe, Leu, or another hydrophobic amino acid; X12 is Lys, Gln, Arg,
CC Orn, or another basic amino acid; X13 is Lys, Gln, Arg, Orn, another
CC basic amino acid, or absent; X14 is Phe or absent X15 is His, Phe, Tyr,
CC Leu, another hydrophobic amino acid, or absent; X16 is Glu or absent; X17
CC is Lys or absent; X18 is His or absent; X19 is His or absent; X20 is Ser
CC or absent; X21 is His or absent; X22 is Arg or absent; and X23 is Gly or
CC absent. Optionally, the peptide may contain at least one modification
CC selected from an N-terminal acyl addition, an N-terminal carbamyl
CC addition and a C-terminal amide addition. Histatin, histatin fragments
CC and histatin-related peptides have activity against Pseudomonas
CC aeruginosa. They may therefore be used to combat Pseudomonas
CC and other pulmonary infections in cystic fibrosis patients. Such
CC infections are often resistant to the antibiotics normally used to treat
CC pulmonary infections. Sequences AAB11985-B11993 represent histatin-
CC related peptides used in the exemplifications of the invention. With the
CC exception of P-113-Q2.3.9.10 (AAB11988), all these peptides showed
CC activity against Pseudomonas aeruginosa

XX Sequence 12 AA;

XX Query Match 44.2%; Score 26.5; DB 3; Length 12;
XX Best Local Similarity 75.0%; Pred. No. 3.3e+02;
XX Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
QY 1 GYKNSKFH 8
Db ||| |||
6 GYK-KKFH 12
RESULT 36
AAB11976
ID AAB11976 standard; peptide; 12 AA.
XX
AC AAB11976;
XX
DT 24-NOV-2000 (first entry)

XX Histatin-related peptide, P-113.
DE
XX
XX Histatin-related peptide; cystic fibrosis; Pseudomonas aeruginosa;
KW antibiotic resistance; pulmonary infection; antibacterial; antibiotic.
XX
XX Homo sapiens.
OS
XX WO200040204-A2.
PN
XX
XX 13-JUL-2000.
PD
XX
XX 07-JAN-2000; 2000WO-US000480.
PF
XX
XX 08-JAN-1999; 99US-002226666.
PR
XX
XX (PERI-) PERIODONTIX INC.
PA
XX
XX Spacciapoli P, Rothstein DM, Friden PM;
PI
XX
XX WPI; 2000-465852/40.
DR
XX
XX Treating cystic fibrosis and combating Pseudomonas and other pulmonary
PT infections in a mammal comprises administering histatin or a fragment of
PT it.
XX
XX Claim 4; Page 16; 27pp; English.
PS
XX The invention relates to treating cystic fibrosis via the administration
CC of a histatin, a fragment of histatin, or a histatin-related peptide. The
CC peptide that is administered contains between 8 and 20 amino acids and
CC has the sequence: X1-X2-X3-X4-X5-X6-X7-X8-X9-X10-X11-X12-X13-X14-X15-X16-
CC X17-X18-X19-X20- X21-X22-X23 where X1 is Asp or absent; X2 is Ser or
CC absent; X3 is His or absent; X4 is Ala, His, Leu or absent; X5 is Lys,
CC Gln, Arg, Orn, or another basic amino acid; X6 is Arg, Gln, Lys, or
CC another basic amino acid; X7 is His, Phe, Tyr Leu, or another hydrophobic
CC amino acid; X8 is His, Phe, Tyr Leu, or another hydrophobic amino acid;
CC X9 is Gly, Lys, Arg, Ser, or a basic amino acid; X10 is Tyr; X11 is Lys,
CC His, Phe, Leu, or another hydrophobic amino acid; X12 is Lys, Gln, Arg,
CC Orn, or another basic amino acid; X13 is Lys, Gln, Arg, Orn, another
CC basic amino acid, or absent; X14 is Phe or absent X15 is His, Phe, Tyr,
CC Leu, another hydrophobic amino acid, or absent; X16 is Glu or absent; X17
CC is Lys or absent; X18 is His or absent; X19 is His or absent; X20 is Ser
CC or absent; X21 is His or absent; X22 is Arg or absent; and X23 is Gly or
CC absent. Optionally, the peptide may contain at least one modification
CC selected from an N-terminal acyl addition, an N-terminal carbamyl
CC addition and a C-terminal amide addition. Histatin, histatin fragments
CC and histatin-related peptides have activity against Pseudomonas
CC aeruginosa. They may therefore be used to combat Pseudomonas
CC and other pulmonary infections in cystic fibrosis patients. Such
CC infections are often resistant to the antibiotics normally used to treat
CC pulmonary infections. Sequences AAB11976-B11984 represent specifically
CC claimed histatin-related peptides for use in the method of the invention.
CC The present sequence corresponds to residues 4-15 of naturally-occurring
CC human histatin 3 and histatin 5 (AAB11974, AAB11975)

XX Sequence 12 AA;

XX Query Match 44.2%; Score 26.5; DB 3; Length 12;
XX Best Local Similarity 75.0%; Pred. No. 3.3e+02;
XX Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
QY 1 GYKNSKFH 8
Db ||| |||
6 GYK-KKFH 12

RESULT 37
AAB11985
ID AAB11985 standard; peptide; 12 AA.
XX
AC AAB11985;
XX

DT 24-NOV-2000 (first entry)
XX Histatin-related peptide, P-113-NA.
DE
XX Histatin-related peptide; cystic fibrosis; Pseudomonas aeruginosa;
KW antibiotic resistance; pulmonary infection; antibacterial; antibiotic.
KW
XX Homo sapiens.
OS Synthetic.
OS
XX Key Location/Qualifiers
FH Modified-site 1
FT /note= "N-terminal acetyl"
FT Modified-site 12
FT /note= "C-terminal amide"
FT
XX WO200040204-A2.
PN
XX 13-JUL-2000.
PD
XX 07-JAN-2000; 2000WO-US000480.
PF
XX 08-JAN-1999; 99US-00226666.
PR
XX (PERI-) PERIODONTIX INC.
PA
XX Spacciapoli P, Rothstein DM, Friden PM;
PI
XX WPI; 2000-465852/40.
DR
XX Treating cystic fibrosis and combating Pseudomonas and other pulmonary
PT infections in a mammal comprises administering histatin or a fragment of
PT it.
XX
PS Example 4; Page 12; 27pp; English.
XX
CC The invention relates to treating cystic fibrosis via the administration
CC of a histatin, a fragment of histatin, or a histatin-related peptide. The
CC peptide that is administered contains between 8 and 20 amino acids and
CC has the sequence: X1-X2-X3-X4-X5-X6-X7-X8-X9-X10-X11-X12-X13-X14-X15-X16-
CC X17-X18-X19-X20- X21-X22-X23 where X1 is Asp or absent; X2 is Ser or
CC absent; X3 is His or absent; X4 is Ala, His, Leu or absent; X5 is Lys,
CC Gln, Arg, Orn, or another basic amino acid; X6 is Arg, Gln, Lys, or
CC another basic amino acid; X7 is His, Phe, Tyr Leu, or another hydrophobic
CC amino acid; X8 is His, Phe, Tyr Leu, or another hydrophobic amino acid;
CC X9 is Gly, Lys, Arg, Ser, or a basic amino acid; X10 is Tyr; X11 is Lys,
CC His, Phe, Leu, or another hydrophobic amino acid; X12 is Lys, Gln, Arg,
CC Orn, or another basic amino acid; X13 is Lys, Gln, Arg, Orn, another
CC basic amino acid, or absent; X14 is Phe or absent; X15 is His, Phe, Tyr,
CC Leu, another hydrophobic amino acid, or absent; X16 is Glu or absent; X17
CC is Lys or absent; X18 is His or absent; X19 is His or absent; X20 is Ser
CC or absent; X21 is His or absent; X22 is Arg or absent; and X23 is Gly or
CC absent. Optionally, the peptide may contain at least one modification
CC selected from an N-terminal acyl addition, an N-terminal carbamyl
CC addition and a C-terminal amide addition. Histatin, histatin fragments
CC and histatin-related peptides have activity against Pseudomonas
CC aeruginosa. They may therefore be used to combat Pseudomonas
CC and other pulmonary infections in cystic fibrosis patients. Such
CC infections are often resistant to the antibiotics normally used to treat
CC pulmonary infections. Sequences AAB11985-B11993 represent histatin-
CC related peptides used in the exemplifications of the invention. With the
CC exception of P-113-Q2.3.9.10 (AAB11988), all these peptides showed
CC activity against Pseudomonas aeruginosa
XX
SQ Sequence 12 AA;
Query Match 44.2%; Score 26.5; DB 3; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 GYKNSKPH 8
||| |||
Db 6 GYKR-KFH 12

RESULT 38
AAB11987
ID AAB11987 standard; peptide; 12 AA.
XX
AC AAB11987;
XX
DT 24-NOV-2000 (first entry)
XX
DE Histatin-related peptide, P-113-Q3.9.
XX
KW Histatin-related peptide; cystic fibrosis; Pseudomonas aeruginosa;
KW antibiotic resistance; pulmonary infection; antibacterial; antibiotic.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT Modified-site 12
FT /note= "C-terminal amide"
FT
XX WO200040204-A2.
PN
XX 13-JUL-2000.
PD
XX 07-JAN-2000; 2000WO-US000480.
PF
XX 08-JAN-1999; 99US-00226666.
PR
XX (PERI-) PERIODONTIX INC.
PA
XX Spacciapoli P, Rothstein DM, Friden PM;
PI
XX WPI; 2000-465852/40.
DR
XX Treating cystic fibrosis and combating Pseudomonas and other pulmonary
PT infections in a mammal comprises administering histatin or a fragment of
PT it.
XX
PS Example 5; Page 12; 27pp; English.
XX
CC The invention relates to treating cystic fibrosis via the administration
CC of a histatin, a fragment of histatin, or a histatin-related peptide. The
CC peptide that is administered contains between 8 and 20 amino acids and
CC has the sequence: X1-X2-X3-X4-X5-X6-X7-X8-X9-X10-X11-X12-X13-X14-X15-X16-
CC X17-X18-X19-X20- X21-X22-X23 where X1 is Asp or absent; X2 is Ser or
CC absent; X3 is His or absent; X4 is Ala, His, Leu or absent; X5 is Lys,
CC Gln, Arg, Orn, or another basic amino acid; X6 is Arg, Gln, Lys, or
CC another basic amino acid; X7 is His, Phe, Tyr Leu, or another hydrophobic
CC amino acid; X8 is His, Phe, Tyr Leu, or another hydrophobic amino acid;
CC X9 is Gly, Lys, Arg, Ser, or a basic amino acid; X10 is Tyr; X11 is Lys,
CC His, Phe, Leu, or another hydrophobic amino acid; X12 is Lys, Gln, Arg,
CC Orn, or another basic amino acid; X13 is Lys, Gln, Arg, Orn, another
CC basic amino acid, or absent; X14 is Phe or absent; X15 is His, Phe, Tyr,
CC Leu, another hydrophobic amino acid, or absent; X16 is Glu or absent; X17
CC is Lys or absent; X18 is His or absent; X19 is His or absent; X20 is Ser
CC or absent; X21 is His or absent; X22 is Arg or absent; and X23 is Gly or
CC absent. Optionally, the peptide may contain at least one modification
CC selected from an N-terminal acyl addition, an N-terminal carbamyl
CC addition and a C-terminal amide addition. Histatin, histatin fragments
CC and histatin-related peptides have activity against Pseudomonas
CC aeruginosa. They may therefore be used to combat Pseudomonas
CC and other pulmonary infections in cystic fibrosis patients. Such
CC infections are often resistant to the antibiotics normally used to treat
CC pulmonary infections. Sequences AAB11985-B11993 represent histatin-
CC related peptides used in the exemplifications of the invention. With the
CC exception of P-113-Q2.3.9.10 (AAB11988), all these peptides showed
CC activity against Pseudomonas aeruginosa
XX
SQ Sequence 12 AA;
Query Match 44.2%; Score 26.5; DB 3; Length 12;

Best Local Similarity 75.0%; Pred. No. 3.3e+02; Mismatches 0; Conservative 1; Indels 1; Gaps 1; Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 GYKNSKFH 8
| | | | |
Db 6 GYK-QKFH 12

RESULT 39
AAB11977
ID AAB11977 standard; peptide; 12 AA.
XX AAB11977;
AC AAB11977;
XX
DT 24-NOV-2000 (first entry)
XX
DE Histatin-related peptide, P-113 (D-form).
XX
KW Histatin-related peptide; cystic fibrosis; Pseudomonas aeruginosa;
KW antibiotic resistance; pulmonary infection; antibacterial; antibiotic.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT Misc-difference 1..12 /note= "All D-form residues"
FT
XX
PN WO200040204-A2.
XX
PD 13-JUL-2000.
XX
PF 07-JAN-2000; 2000WO-US000480.
XX
PR 08-JAN-1999; 99US-00226666.
XX
PA (PERI-) PERIODONTIX INC.
XX
PI Spacciapoli P, Rothstein DM, Friden PM;
XX
DR WPI; 2000-465852/40.
XX
PT Treating cystic fibrosis and combating Pseudomonas and other pulmonary
PT infections in a mammal comprises administering histatin or a fragment of
PT it.
XX
PS Claim 5; Page 16; 27pp; English.
XX
CC The invention relates to treating cystic fibrosis via the administration
CC of a histatin, a fragment of histatin, or a histatin-related peptide. The
CC peptide that is administered contains between 8 and 20 amino acids and
CC has the sequence: X1-X2-X3-X4-X5-X6-X7-X8-X9-X10-X11-X12-X13-X14-X15-X16-
CC X17-X18-X19-X20- X21-X22-X23 where X1 is Asp or absent; X2 is Ser or
CC absent; X3 is His or absent; X4 is Ala, His, Leu or absent; X5 is Lys,
CC Gln, Arg, Orn, or another basic amino acid; X6 is Arg, Gln, Lys, or
CC another basic amino acid; X7 is His, Phe, Tyr Leu, or another hydrophobic
CC amino acid; X8 is His, Phe, Tyr Leu, or another hydrophobic amino acid;
CC X9 is Gly, Lys, Arg, Ser, or a basic amino acid; X10 is Tyr; X11 is Lys,
CC His, Phe, Leu, or another hydrophobic amino acid; X12 is Lys, Gln, Arg,
CC Orn, or another basic amino acid; X13 is Lys, Gln, Arg, Orn, another
CC basic amino acid, or absent; X14 is Phe or absent X15 is His, Phe, Tyr,
CC Leu, another hydrophobic amino acid, or absent; X16 is Glu or absent; X17
CC is Lys or absent; X18 is His or absent; X19 is His or absent; X20 is Ser
CC or absent; X21 is His or absent; X22 is Arg or absent; and X23 is Gly or
CC absent. Optionally, the peptide may contain at least one modification
CC selected from an N-terminal acyl addition, an N-terminal carbamyl
CC addition and a C-terminal amide addition. Histatin, histatin fragments
CC and histatin-related peptides have activity against Pseudomonas
CC aeruginosa. They may therefore be used to combat Pseudomonas infections
CC and other pulmonary infections in cystic fibrosis patients. Such
CC infections are often resistant to the antibiotics normally used to treat
CC pulmonary infections. Sequences AAB11976-B11984 represent specifically
CC claimed histatin-related peptides for use in the method of the invention

XX SQ Sequence 12 AA;
Query Match 44.2%; Score 26.5; DB 3; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 GYKNSKFH 8
| | | | |
Db 6 GYKR-KFH 12

RESULT 40
ADB81288
ID ADB81288 standard; peptide; 12 AA.
XX
AC ADB81288;
XX
DT 04-DEC-2003 (first entry)
XX
DE Biologically active histatin peptide (SeqID 22).
XX
KW peptide synthesis; protegrin IB-367; hybrid process; microflora;
KW antibacterial; oral mucositis; histatin.
XX
OS Synthetic.
XX
PN WO2003062266-A2.
XX
PD 31-JUL-2003.
XX
PF 22-JAN-2003; 2003WO-US001998.
XX
PR 22-JAN-2002; 2002US-0350449P.
XX
PA (INTR-) INTRABIOTICS PHARM INC.
XX
PI Merutka G, Zhu Z, Almeda SA;
XX
DR WPI; 2003-663393/62.
XX
PT Synthesizing protegrin IB-367 peptide used for treating infectious
PT diseases, by solid phase synthesis of specific side chain protected
PT peptide, using side chain non-protected arginine reagents and
PT deprotecting side chain protected peptide.
XX
PS Disclosure; Page 8; 70pp; English.
XX
CC This invention relates to a novel method for peptide synthesis.
CC Specifically, it refers to the synthesis of the protegrin IB-367 peptide
CC by a hybrid process, which comprises carrying out both solid phase
CC synthesis as well as liquid phase synthesis methods. The present
CC invention describes synthesizing specific side chain protected peptide
CC fragment intermediates using non-protected arginine reagents, and
CC deprotecting the side chain protected peptide. The protegrin IB-367
CC peptide is active in vitro and in vivo against microflora, such that it
CC is described as having antibacterial properties and can be used for
CC treating oral mucositis. Furthermore it is useful for coupling to
CC therapeutic agents, reporter molecules, diagnostic agents and antibody
CC molecules. This peptide sequence is the histatin peptide (SeqID 22),
CC synthesised by the method of the invention.
XX
SQ Sequence 12 AA;
Query Match 44.2%; Score 26.5; DB 7; Length 12;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 GYKNSKFH 8
| | | | |
Db 6 GYKR-KFH 12

KW vaginal infection; urethral infection; mucosal infection; ear infection;
 KW respiratory infection; skin infection; ophthalmic infection;
 KW bacterial disease; Streptococcus mutans; Porphyromonas gingivalis;
 KW Clostridium histolyticum.

XX Synthetic.

OS Key Location/Qualifiers

XX Region 1. .14

FT /note= "At least one amino acid must have D-configuration"

XX WO9640770-A2.

PN 19-DEC-1996.

XX 07-JUN-1996; 96WO-US009962.

XX 07-JUN-1995; 95US-00485273.

XX (PERI-) PERIODONTIX INC.

PA (UYBO-) UNIV BOSTON.

XX Oppenheim FG, Xu T, Spacciapoli P, Roberts FD, Friden PM;
 PI WPI; 1997-052234/05.

XX Anti-fungal and anti-bacterial D-amino acid histatins and histatin-based
 PT peptide(s) - useful esp for treating Candidal infections, periodontitis
 PT and caries.

XX Claim 2; Fig 1; 63pp; English.

XX The present sequence represents a specifically claimed example of an anti
 CC -fungal and anti-bacterial D-amino acid histatin-based peptide 104, where
 CC at least one amino acid in the peptide is in the D-configuration. The
 CC peptide is preferably modified by an acetyl or carbamyl addition at the N
 CC -terminus and/or amidation at the C-terminus. The novel D-amino acid-
 CC containing peptide, based on the naturally occurring histidine-rich human
 CC histatins, have anti-fungal and anti-bacterial activity and are useful in
 CC compositions for the treatment of oral, vaginal, urethral, mucosal,
 CC respiratory, skin, ear and ophthalmic fungal or bacterial infections. It
 CC is particularly effective against local and systemic Candida albicans
 CC infection, against oral bacterial diseases such as caries and
 CC periodontitis (by inhibiting e.g. Streptococcus mutans and Porphyromonas
 CC gingivalis) and against Clostridium histolyticum. The D-amino acid-
 CC containing peptide has superior anti-fungal (especially anti-candidal)
 CC and anti-bacterial activity, particularly on a weight basis, compared to
 CC the natural L- amino acid forms of histatins and histatin-based peptides.
 CC The presence of D-residues also makes the peptides more resistant to
 CC degradation than corresponding L-amino acid versions

XX Sequence 14 AA;

QY Query Match 44.2%; Score 26.5; DB 2; Length 14;
 Db Best Local Similarity 75.0%; Pred. No. 3.9e+02;
 Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 GYKNSKFH 8
 ||| |||
 Db 1 GYKR-KFH 7

RESULT 44

AAW31675

ID AAW31675 standard; peptide; 14 AA.

XX AAW31675;

XX 27-MAR-1998 (first entry)

XX Human histatin 3 based peptide 3P4.

DE WPI; 1996-329479/33.

XX HLA-binding oligopeptide and an immuno:regulator contg it - used in the

KW Histatin 3; macaque; human; treatment; fungal infection; candidiasis;
 KW histidine rich protein.

XX Synthetic.

OS Homo sapiens.

XX US5696078-A.

PN 09-DEC-1997.

XX 16-MAY-1995; 95US-00441914.

XX 01-NOV-1991; 91US-00786571.

PR 28-OCT-1993; 93US-00145030.

XX 09-AUG-1994; 94US-00287717.

XX (UYBO-) UNIV BOSTON.

XX Oppenheim FG, Xu T;
 PI WPI; 1998-041326/04.

XX Treating fungal infections - by administering histatin peptide(s).

XX Claim 1; Col 11-12; 19pp; English.

XX This is a human histatin 3 based peptide 3P4. Histatin is a histidine
 CC rich salivary protein. This peptide and other peptides based on human
 CC histatin 3 and macaque histatins can be synthesised for treatment of
 CC fungal, in particular, candidal infections. Expression vectors encoding
 CC these peptides can be used in antifungal treatment methods. They can be
 CC used to treat candidiasis, fungal infections of the oral cavity, vagina,
 CC urethra and skin and systemic fungal infections

XX Sequence 14 AA;

QY Query Match 44.2%; Score 26.5; DB 2; Length 14;
 Db Best Local Similarity 75.0%; Pred. No. 3.9e+02;
 Matches 6; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 GYKNSKFH 8
 ||| |||
 Db 1 GYKR-KFH 7

RESULT 45

AAW49599

ID AAW49599 standard; peptide; 9 AA.

XX AAW49599;

XX 05-JUN-1998 (first entry)

XX Human leucocyte antigen DQ4 binding peptide #490.

XX Human leucocyte antigen; HLA-DQ4; combinatorial library;
 KW autoimmune disease; chronic articular rheumatism.

XX Synthetic.

XX JP08151396-A.

XX 11-JUN-1996.

XX 28-NOV-1994; 94JP-00292657.

XX 28-NOV-1994; 94JP-00292657.

XX (TEIJ) TEIJIN LTD.

XX WPI; 1996-329479/33.

XX HLA-binding oligopeptide and an immuno:regulator contg it - used in the

PT treatment of auto:immune disease.
XX
PS Claim 4; Page 53; 61pp; Japanese.
XX
CC This peptide is an example of a peptide which binds to a human leucocyte
CC antigen HLA-DQ4 molecule. The peptide was isolated from a phagemid
CC combinatorial library comprising the sequence AAV05953, by screening with
CC an HLA-DQ4 molecule. The peptide is used for the treatment of autoimmune
CC disease, or especially for treatment of viral diseases
XX
SQ Sequence 9 AA;
Query Match 43.3%; Score 26; DB 2; Length 9;
Best Local Similarity 44.4%; Pred. NO. 1.4e+06;
Matches 4; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
QY 1 GYKNSKFHR 9
||| : |
Db 1 GYKRDSYER 9
Search completed: August 30, 2004, 10:49:29
Job time : 17.3885 secs

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OM protein - protein search, using sw model

Run on: August 30, 2004, 10:40:34 ; Search time 200.27 Seconds
(without alignments)
327.696 Million cell updates/sec

Title: US-09-720-469A-44
Perfect score: 1083
Sequence: 1 MKVLLAAALAGSVFFLLP.....VIADCGKIEVEKFAIAKE 208

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 3347

Minimum DB seq length: 8
Maximum DB seq length: 14

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SPTREMBL 25.*

- 1: sp_archaea.*
- 2: sp_bacteria.*
- 3: sp_fungi.*
- 4: sp_human.*
- 5: sp_invertebrate.*
- 6: sp_mammal.*
- 7: sp_mhc.*
- 8: sp_organelle.*
- 9: sp_phage.*
- 10: sp_plant.*
- 11: sp_rodent.*
- 12: sp_virus.*
- 13: sp_vertebrate.*
- 14: sp_unclassified.*
- 15: sp_rvirus.*
- 16: sp_bacteriaph.*
- 17: sp_archaea.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	34	3.1	13	Q865C9	Q865C9 sus scrofa
2	32	3.0	13	Q9AU99	Q9au99 aethionema
3	31	2.9	9	Q9H326	Q9h326 homo sapien
4	31	2.9	13	Q9PS56	Q9ps56 carassius a
5	29	2.7	13	P87031	P87031 saccharomyc
6	29	2.7	13	Q9UPE7	Q9upe7 homo sapien
7	29	2.7	13	Q9T4K5	Q9t4k5 bryopsis sp
8	29	2.7	13	Q9TH50	Q9ths0 bryopsis sp
9	29	2.7	13	Q9T4K4	Q9t4k4 bryopsis sp
10	29	2.7	13	Q9TH52	Q9ths2 bryopsis sp
11	29	2.7	13	Q9T4K6	Q9t4k6 bryopsis sp
12	29	2.7	13	Q9T4K3	Q9t4k3 bryopsis sp
13	29	2.7	14	Q9UNM9	Q9unm9 homo sapien
14	28	2.6	14	Q9LCS1	Q9lcs1 bacillus su
15	27	2.5	11	Q9UAR8	Q9uar8 aedes aegyp
16	27	2.5	14	Q9R3U3	Q9r3u3 chlamydia t

17	27	2.5	14	5	Q26100	Q26100 pratylenchu
18	27	2.5	14	6	Q9N1V6	Q9niv6 equus cabal
19	26.5	2.4	14	2	Q52636	Q52636 escherichia
20	26	2.4	10	11	Q9QVE9	Q9qve9 mus sp. pro
21	26	2.4	12	6	Q9N2B9	Q9n2b9 gorilla gor
22	26	2.4	12	6	Q9N2B8	Q9n2b8 pongo pygma
23	26	2.4	12	6	Q9N2C0	Q9n2c0 pan troglod
24	26	2.4	12	10	Q93YC8	Q93yc8 nicotiana t
25	26	2.4	12	10	Q8GSB9	Q8gsb9 lolium pere
26	26	2.4	12	11	Q80XV4	Q80xv4 rattus sp.
27	26	2.4	12	11	Q64313	Q64313 rattus norv
28	26	2.4	13	4	Q7Z5Z6	Q7z5z6 homo sapien
29	26	2.4	13	13	P82848	P82848 rana pipien
30	26	2.4	14	15	Q8JDM3	Q8jdm3 human immun
31	26	2.4	14	15	Q8JDM7	Q8jdm7 human immun
32	26	2.4	14	15	Q8JDM0	Q8jdm0 human immun
33	25.5	2.4	13	8	Q9THS3	Q9ths3 bryopsis sp
34	25	2.3	9	2	Q84F20	Q84f20 bacillus su
35	25	2.3	9	8	Q85G96	Q85g96 pyrrhobryum
36	25	2.3	10	10	Q8SAC2	Q8sac2 amblystegiu
37	25	2.3	11	2	Q47606	Q47606 escherichia
38	25	2.3	11	4	Q9C057	Q9c057 homo sapien
39	25	2.3	12	4	Q9BQQ1	Q9bqq1 homo sapien
40	25	2.3	12	8	Q9XNR6	Q9xnr6 pylaiella l
41	25	2.3	12	10	Q8H6E6	Q8h6e6 hordeum vul
42	25	2.3	12	12	Q80IG7	Q80ig7 choristoneu
43	25	2.3	13	13	Q7ZZN7	Q7zzn7 xenopus lae
44	25	2.3	13	15	Q98YM1	Q98ym1 human immun
45	25	2.3	14	11	Q99PB8	Q99pb8 mus musculu

ALIGNMENTS

RESULT 1
Q865C9
ID Q865C9 PRELIMINARY; PRT; 13 AA.
AC Q865C9;
DT 01-JUN-2003 (TREMBlrel. 24, Created)
DT 01-JUN-2003 (TREMBlrel. 24, Last sequence update)
DT 01-JUN-2003 (TREMBlrel. 24, Last annotation update)
DE Glutamine synthetase (Fragment).
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID=9923;
RN [1]
RP SEQUENCE FROM N.A.
RA Kim J.G., Vallet J.L., Christenson R.K.;
RT "Characterization of porcine glutamine synthetase."
RL Submitted (JAN-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY216477; AAO64254.1;
FT NON TER 1
SQ SEQUENCE 13 AA; 1555 MW; 87987A0B71AB6B1A CRC64;

Query Match 3.1%; Score 34; DB 6; Length 13;
Best Local Similarity 60.0%; Pred. No. 1.3e+04;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 73 TGEKGFYKN 82
Db 4 TGDEPFYKN 13

RESULT 2
Q9AU99
ID Q9AU99 PRELIMINARY; PRT; 13 AA.
AC Q9AU99;
DT 01-JUN-2001 (TREMBlrel. 17, Created)
DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
DT 01-JUN-2001 (TREMBlrel. 17, Last annotation update)
DE Chalcone synthase (Fragment).
OS Aethionema grandiflora.

OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;
OC eucosids II; Brassicales; Brassicaceae; Aethionema.
OX NCBI_TaxID=72657;
RN [1]
RP SEQUENCE FROM N.A.
RA Koch M., Kroymann J., Haubold B., Weishaar B., Mitchell-Olds T.;
RT "Phylogenetic analysis of promoter sequences from cruciferous
RT plants.";
RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF249000; AAK31935.1; -.
FT NON TER 13
SQ SEQUENCE 13 AA; 1432 MW; 5C444963C4621AA7 CRC64;

Query Match 3.0%; Score 32; DB 10; Length 13;
Best Local Similarity 60.0%; Pred. No. 2e+04;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 21 GPSAADEKKK 30
ID Q9H326 PRELIMINARY; PRT; 9 AA.
AC Q9H326;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
DE NAD+-dependent isocitrate dehydrogenase 3 alpha subunit
DE (Fragment).
GN IDH3A.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Kim Y.-O., Koh H.-J., Jo S.-H., Son M.-K., Huh T.-L.;
RT "Structural and functional characterization of the human NAD+-
RT dependent isocitrate dehydrogenase alpha subunit promoter.";
RL Submitted (JUN-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF157515; AAG43379.1; -.
FT NON TER 9
SQ SEQUENCE 9 AA; 960 MW; C91CB0437DC7687D CRC64;

Query Match 2.9%; Score 31; DB 4; Length 9;
Best Local Similarity 66.7%; Pred. No. 1e+06;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 126 GPGWVS 131
ID Q9PS56 PRELIMINARY; PRT; 13 AA.
AC Q9PS56;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE NEUROLIN=CELL surface glycoprotein (Fragment).
OS Carassius auratus (Goldfish).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Carassius.
OX NCBI_TaxID=7957;
RN [1]
RP SEQUENCE.
RX MEDLINE=92250720; PubMed=1577862;
RA Paschke K.A., Lottspeich F., Stuermer C.A.;

RT "Neurolin, a cell surface glycoprotein on growing retinal axons in the
RT goldfish visual system, is reexpressed during retinal axonal
RT regeneration.";
RL J. Cell Biol. 117:863-875(1992).
FT NON TER 1
FT NON TER 13
SQ SEQUENCE 13 AA; 1332 MW; 33AF8FF8CC535728 CRC64;

Query Match 2.9%; Score 31; DB 13; Length 13;
Best Local Similarity 44.4%; Pred. No. 2.4e+04;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 53 IFGLFGKTV 61
ID P87031 PRELIMINARY; PRT; 13 AA.
AC P87031;
DT 01-JUL-1997 (TrEMBLrel. 04, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE ORF YGR126W (Fragment).
OS Saccharomyces cerevisiae (Baker's yeast).
OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
OC Saccharomycetales; Saccharomycetaceae; Saccharomyces.
OX NCBI_TaxID=4932;
RN [1]
RP SEQUENCE FROM N.A.
RA Van Dyck L., Skala J., de Wergifosse P., Purnelle B., Talla E.,
RA Nawrocki A., Del Bino S., Goffeau A.;
RL Submitted (MAY-1996) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA MIPS;
RL Submitted (MAY-1996) to the EMBL/GenBank/DBJ databases.
DR EMBL; Z72912; CAA97139.2; -.
FT NON TER 1
SQ SEQUENCE 13 AA; 1594 MW; 2954BA87F3F8C9C8 CRC64;

Query Match 2.7%; Score 29; DB 3; Length 13;
Best Local Similarity 46.7%; Pred. No. 3.6e+04;
Matches 7; Conservative 1; Mismatches 1; Indels 6; Gaps 1;

QY 74 GEKGFYKNSKPHRV 88
ID Q9UPE7 PRELIMINARY; PRT; 13 AA.
AC Q9UPE7;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Inosine monophosphatase 2 (Fragment).
GN IMPA2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=97463449; PubMed=9322233;
RA Yoshikawa T., Turner G., Esterling L.E., Sanders A.R.,
RA Detera-Wadleigh S.D.;
RT "A novel human myo-inositol monophosphatase gene, IMP.18p, maps to a
RT susceptibility region for bipolar disorder.";
RL Mol. Psychiatry 2:393-397(1997).
RN [2]

```
RP SEQUENCE FROM N.A.
RX MEDLINE=20284187;
RA Yoshikawa T., Padigaru M., Karkera J.D., Sharma M., Berrettini W.H.,
RA Esterling L.E., Detera-Wadleigh S.D.;
RT "Genomic structure and novel variants of myo-inositol monophosphatase
RT 2.";
RL Mol. Psychiatry 5:165-171(2000).
DR EMBL; AF025882; AAD22136.1; -.
DR EMBL; AF025881; AAD22136.1; JOINED.
FT NON_TER 1
FT NON_TER 13
SQ SEQUENCE 13 AA; 1589 MW; F3415D841F48D401 CRC64;

Query Match      2.7%; Score 29; DB 4; Length 13;
Best Local Similarity 62.5%; Pred. No. 3.6e+04;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 113 ERFPDENF 120
Db      |||||
1 ERFPDSHRF 8

RESULT 7
Q9T4K5
ID Q9T4K5 PRELIMINARY; PRT; 13 AA.
AC Q9T4K5;
DT 01-MAY-2000 (TReMBLrel. 13, Created)
DT 01-MAY-2000 (TReMBLrel. 13, Last sequence update)
DT 01-JUN-2003 (TReMBLrel. 24, Last annotation update)
DE PSSH (Fragment).
GN PSSH.
OS Bryopsis sp. C.
OG Chloroplast.
OC Eukaryota; Viridiplantae; Chlorophyta; Ulvophyceae; Caulerpaes;
OC Bryopsidaceae; Bryopsis.
OX NCBI_TaxID=103786;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=VARIOUS STRAINS;
RA Krellwitz E.C., Kowallik K.V., Manos P.S.;
RT "Phylogenetic Study of Bryopsis (Chlorophyta) from the Western North
RT Atlantic and Caribbean based on Coding and Non-coding sequences of the
RT Chloroplast psbB Operon.";
RL Submitted (JUL-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF170407; AAD56846.1; -.
DR EMBL; AF170383; AAD56798.1; -.
DR EMBL; AF170384; AAD56800.1; -.
DR EMBL; AF170385; AAD56802.1; -.
DR EMBL; AF170386; AAD56804.1; -.
DR EMBL; AF170387; AAD56806.1; -.
DR EMBL; AF170388; AAD56808.1; -.
DR EMBL; AF170389; AAD56810.1; -.
DR EMBL; AF170390; AAD56812.1; -.
DR EMBL; AF170391; AAD56814.1; -.
DR EMBL; AF170392; AAD56816.1; -.
DR EMBL; AF170393; AAD56818.1; -.
DR EMBL; AF170394; AAD56820.1; -.
DR GO; GO:0009507; C:chloroplast; IEA.
KW Chloroplast.
FT NON_TER 13
SQ SEQUENCE 13 AA; 1366 MW; 2C31687A2E93A338 CRC64;

Query Match      2.7%; Score 29; DB 8; Length 13;
Best Local Similarity 83.3%; Pred. No. 3.6e+04;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 134 NAGKDT 139
Db      |||||
4 NSGKDT 9

RESULT 8
Q9THS0
ID Q9THS0 PRELIMINARY; PRT; 13 AA.
AC Q9THS0;
DT 01-MAY-2000 (TReMBLrel. 13, Created)
DT 01-MAY-2000 (TReMBLrel. 13, Last sequence update)
DT 01-JUN-2003 (TReMBLrel. 24, Last annotation update)
DE PSSH (Fragment).
GN PSSH.
OS Bryopsis sp. B.
OG Chloroplast.
OC Eukaryota; Viridiplantae; Chlorophyta; Ulvophyceae; Caulerpaes;
OC Bryopsidaceae; Bryopsis.
OX NCBI_TaxID=103785;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=VARIOUS STRAINS;
RA Krellwitz E.C., Kowallik K.V., Manos P.S.;
RT "Phylogenetic Study of Bryopsis (Chlorophyta) from the Western North
RT Atlantic and Caribbean based on Coding and Non-coding sequences of the
RT Chloroplast psbB Operon.";
RL Submitted (JUL-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF170405; AAD56842.1; -.
DR EMBL; AF170395; AAD56822.1; -.
DR EMBL; AF170396; AAD56824.1; -.
DR EMBL; AF170397; AAD56826.1; -.
DR EMBL; AF170398; AAD56828.1; -.
DR EMBL; AF170399; AAD56830.1; -.
DR EMBL; AF170400; AAD56832.1; -.
DR EMBL; AF170401; AAD56834.1; -.
DR EMBL; AF170402; AAD56836.1; -.
DR EMBL; AF170403; AAD56838.1; -.
DR EMBL; AF170404; AAD56840.1; -.
DR GO; GO:0009507; C:chloroplast; IEA.
KW Chloroplast.
FT NON_TER 13
SQ SEQUENCE 13 AA; 1366 MW; 2C31687A2E93A338 CRC64;
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Query Match 2.7%; Score 29; DB 8; Length 13;
Best Local Similarity 83.3%; Pred. No. 3.6e+04;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 134 NAGKDT 139
Db 4 NSGKDT 9

RESULT 10
Q9THS2
ID Q9THS2 PRELIMINARY; PRT; 13 AA.
AC Q9THS2;
DT 01-MAY-2000 (TREMBlrel. 13, Created)
DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)
DT 01-JUN-2003 (TREMBlrel. 24, Last annotation update)
DE PbsH (Fragment).
GN PbsH.

OS Bryopsis sp. D.
OG Chloroplast.
OC Eukaryota; Viridiplantae; Chlorophyta; Ulvophyceae; Caulerpaes;
OC Bryopsidaceae; Bryopsis.

OX NCBI_TaxID=103787;
RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=97-07-01;

RA Krellwitz E.C.; Kowallik K.V., Manos P.S.;

RT "Phylogenetic Study of Bryopsis (Chlorophyta) from the Western North Atlantic and Caribbean based on Coding and Non-coding sequences of the Chloroplast psbB Operon.";

RL Submitted (JUL-1999) to the EMBL/GenBank/DBJ databases.

DR EMBL; AF170382; AAD56796.1; -.

DR GO; GO:0009507; C:chloroplast; IEA.

KW Chloroplast.

FT NON TER 13 13

SQ SEQUENCE 13 AA; 1366 MW; 2C31687A2E93A338 CRC64;

Query Match 2.7%; Score 29; DB 8; Length 13;
Best Local Similarity 83.3%; Pred. No. 3.6e+04;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 134 NAGKDT 139
Db 4 NSGKDT 9

RESULT 11
Q9T4K6
ID Q9T4K6 PRELIMINARY; PRT; 13 AA.
AC Q9T4K6;
DT 01-MAY-2000 (TREMBlrel. 13, Created)
DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)
DT 01-JUN-2003 (TREMBlrel. 24, Last annotation update)
DE PbsH (Fragment).
GN PbsH.

OS Bryopsis sp. A.
OG Chloroplast.
OC Eukaryota; Viridiplantae; Chlorophyta; Ulvophyceae; Caulerpaes;
OC Bryopsidaceae; Bryopsis.

OX NCBI_TaxID=103784;

RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=VARIOUS STRAINS;

RA Krellwitz E.C.; Kowallik K.V., Manos P.S.;

RT "Phylogenetic Study of Bryopsis (Chlorophyta) from the Western North Atlantic and Caribbean based on Coding and Non-coding sequences of the Chloroplast psbB Operon.";

RL Submitted (JUL-1999) to the EMBL/GenBank/DBJ databases.

DR EMBL; AF170415; AAD56862.1; -.

DR EMBL; AF170408; AAD56848.1; -.

DR EMBL; AF170409; AAD56850.1; -.

DR EMBL; AF170410; AAD56852.1; -.

DR EMBL; AF170411; AAD56854.1; -.

DR EMBL; AF170412; AAD56856.1; -.
DR EMBL; AF170414; AAD56860.1; -.
DR GO; GO:0009507; C:chloroplast; IEA.
KW Chloroplast.
FT NON TER 13 13
SQ SEQUENCE 13 AA; 1366 MW; 2C31687A2E93A338 CRC64;

Query Match 2.7%; Score 29; DB 8; Length 13;
Best Local Similarity 83.3%; Pred. No. 3.6e+04;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 134 NAGKDT 139
Db 4 NSGKDT 9

RESULT 12

Q9T4K3

ID Q9T4K3 PRELIMINARY; PRT; 13 AA.

AC Q9T4K3;

DT 01-MAY-2000 (TREMBlrel. 13, Created)

DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)

DT 01-JUN-2003 (TREMBlrel. 24, Last annotation update)

DE PbsH (Fragment).

GN PbsH.

OS Bryopsis sp. E.

OG Chloroplast.

OC Eukaryota; Viridiplantae; Chlorophyta; Ulvophyceae; Caulerpaes;

OC Bryopsidaceae; Bryopsis.

OX NCBI_TaxID=103788;

RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=95-05-03, 96-07-03, 95-12-02, 94-19-1R, 97-13-1R, and 98-08-03;

RA Krellwitz E.C.; Kowallik K.V., Manos P.S.;

RT "Phylogenetic Study of Bryopsis (Chlorophyta) from the Western North Atlantic and Caribbean based on Coding and Non-coding sequences of the Chloroplast psbB Operon.";

RL Submitted (JUL-1999) to the EMBL/GenBank/DBJ databases.

DR EMBL; AF170380; AAD56792.1; -.

DR EMBL; AF170373; AAD56778.1; -.

DR EMBL; AF170375; AAD56782.1; -.

DR EMBL; AF170376; AAD56784.1; -.

DR EMBL; AF170377; AAD56786.1; -.

DR EMBL; AF170378; AAD56788.1; -.

DR GO; GO:0009507; C:chloroplast; IEA.

KW Chloroplast.

FT NON TER 13 13

SQ SEQUENCE 13 AA; 1366 MW; 2C31687A2E93A338 CRC64;

Query Match 2.7%; Score 29; DB 8; Length 13;
Best Local Similarity 83.3%; Pred. No. 3.6e+04;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 134 NAGKDT 139
Db 4 NSGKDT 9

RESULT 13

Q9UNM9

ID Q9UNM9 PRELIMINARY; PRT; 14 AA.

AC Q9UNM9;

DT 01-MAY-2000 (TREMBlrel. 13, Created)

DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)

DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)

DE RING3 protein (Fragment).

GN RING3.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

OX NCBI_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RA Keddache M, Zhang F, Greenberg D.A.;
RT "A Dinucleotide Repeat Between Exons 2 and 3 of the Human RING3
Gene.";
RL Submitted (NOV-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF107699; AAD24963.1; -.
DR InterPro; IPR001487; Bromodomain.
FT NON_TER 1 14
FT NON_TER 14 14
SQ SEQUENCE 14 AA; 1677 MW; 5CDF036680AE22D3 CRC64;

Query Match 2.7%; Score 29; DB 4; Length 14;
Best Local Similarity 41.7%; Pred. No. 4e+04;
Matches 5; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 85 FHRVIKDFMIQ 96
:|:|:|:|
Db 2 YHKIIQPMDMG 13

RESULT 14
Q9LCS1
ID Q9LCS1 PRELIMINARY; PRT; 14 AA.
AC Q9LCS1;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Levan sucrase (Fragment).
GN SABC.
OS Bacillus subtilis.
OG Plasmid pIZ57.
OC Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
OX NCBI_TaxID=1423;
RN [1]
RP SEQUENCE FROM N.A.
RA Maldonado R., Casadesus J.;
RT "Identification of IS210 in Azotobacter vinelandii: a novel,
functional insertion element member of the IS5 family.";
RL Submitted (SEP-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AJ249381; CAB76429.1; -.
DR GO; GO:0046821; C:extrachromosomal DNA; IEA.
KW Plasmid.
FT NON_TER 1 1
FT NON_TER 14 14
SQ SEQUENCE 14 AA; 1623 MW; 8DC9108BA1B18745 CRC64;

Query Match 2.6%; Score 28; DB 2; Length 14;
Best Local Similarity 54.5%; Pred. No. 4.9e+04;
Matches 6; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 178 KTSRDKPLKD 188
|:|:|:|:|
Db 1 KFDANDSILKD 11

RESULT 15
Q9UAR8
ID Q9UAR8 PRELIMINARY; PRT; 11 AA.
AC Q9UAR8;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Sialokinin I preproprotein (Fragment).
OS Aedes aegypti (yellow fever mosquito).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Aedes.
OX NCBI_TaxID=7159;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Rockefeller/Red; TISSUE=Salivary gland;
RX MEDLINE=2009025; PubMed=10620041;
RA Beerntsen B.T., Champagne D.E., Coleman J.L., Campos Y.A., James A.A.;
RT "Characterization of the Sialokinin I gene encoding the salivary
vasodilator of the yellow fever mosquito, Aedes aegypti.";

RL Insect Mol. Biol. 8:459-467 (1999).
DR EMBL; AF108100; AAD16884.1; -.
DR GO; GO:0007268; P:synaptic transmission; IEA.
DR GO; GO:0007217; P:tachykinin signaling pathway; IEA.
DR InterPro; IPR002040; Tachy_Neurokinin.
DR PROSITE; PS00267; TACHYKININ; 1.
FT NON_TER 1 1
SQ SEQUENCE 11 AA; 1203 MW; 8BADC77C6B59C33A CRC64;

Query Match 2.5%; Score 27; DB 5; Length 11;
Best Local Similarity 45.5%; Pred. No. 4.4e+04;
Matches 5; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 48 DVGRVIFGLFG 58
|:|:|:|:|
Db 1 DTGDKFYGLMG 11

RESULT 16
Q9R3U3
ID Q9R3U3 PRELIMINARY; PRT; 14 AA.
AC Q9R3U3;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE 27 kDa histone analog (Fragment).
OS Chlamydia trachomatis.
OC Bacteria; Chlamydiae; Chlamydiales; Chlamydiaceae; Chlamydia.
OX NCBI_TaxID=813;
RN [1]
RP SEQUENCE.
RX MEDLINE=92041597; PubMed=1938908;
RA Hackstadt T.;
RT "Purification and N-terminal amino acid sequences of Chlamydia
trachomatis histone analogs.";
RL J. Bacteriol. 173:7046-7049 (1991).
FT NON_TER 14 14
SQ SEQUENCE 14 AA; 1519 MW; 423ED67AE4969D03 CRC64;

Query Match 2.5%; Score 27; DB 2; Length 14;
Best Local Similarity 66.7%; Pred. No. 6e+04;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 171 VRKVESTKT 179
|:|:|:|:|
Db 4 VQKKRSTKT 12

RESULT 17
Q26100
ID Q26100 PRELIMINARY; PRT; 14 AA.
AC Q26100;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Pmmsp-5 (Fragment).
GN Pmmsp-5.
OS Pratylenchus penetrans (Root-lesion nematode).
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Tylenchida; Tylenchina;
OC Tylenchoidea; Pratylenchidae; Pratylenchinae; Pratylenchus.
OX NCBI_TaxID=45929;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Maryland isolate;
RA Setterquist R.A., Smith G.K., Jones R., Fox G.E.;
RT "Diagnostic Probes Targeting the Major Sperm Protein Gene may be
Useful for the Molecular Identification of Nematodes.";
RL J. Nematol. 0:0-0 (1996).
DR EMBL; U57830; AAB02263.1; -.
FT NON_TER 1 1
FT NON_TER 14 14
SQ SEQUENCE 14 AA; 1775 MW; 18EB70A35334554B CRC64;

Query Match 2.5%; Score 27; DB 5; Length 14;
Best Local Similarity 36.4%; Pred. No. 6e+04;
Matches 4; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 155 DGKHVVFGKVL 165
Db 2 DDKHTYYMKII 12

RESULT 18
Q9N1V6 PRELIMINARY; PRT; 14 AA.
ID Q9N1V6
AC Q9N1V6;
DT 01-OCT-2000 (TReMBLrel. 15, Created)
DT 01-OCT-2000 (TReMBLrel. 15, Last sequence update)
DT 01-OCT-2000 (TReMBLrel. 15, Last annotation update)
DE Beta-hemoglobin (Fragment).
GN HBB.
OS Equus caballus (Horse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Perissodactyla; Equidae; Equus.
OX NCBI_TaxID=9796;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20082971; PubMed=10613847;
RA Caetano A.R., Shiue Y.L., Lyons L.A., O'Brien S.J., Laughlin T.F.,
RA Bowling A.T., Murray J.D.;
RT "A comparative gene map of the horse (Equus caballus).";
RL Genome Res. 9:1239-1249 (1999).
DR EMBL; AF134224; AAF63865.1; -.
FT NON_TER 1 14
FT NON_TER 14 14
SQ SEQUENCE 14 AA; 1456 MW; 5CI4536E1EEF1977 CRC64;

Query Match 2.5%; Score 27; DB 6; Length 14;
Best Local Similarity 40.0%; Pred. No. 6e+04;
Matches 4; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 44 IGDEDVGRVI 53
Db 2 VGGEALGRIV 11

RESULT 19
Q52636 PRELIMINARY; PRT; 14 AA.
ID Q52636
AC Q52636;
DT 01-NOV-1996 (TReMBLrel. 01, Created)
DT 01-NOV-1996 (TReMBLrel. 01, Last sequence update)
DT 01-JUN-2003 (TReMBLrel. 24, Last annotation update)
DE Tral protein (Fragment).
GN TRAL.
OS Escherichia coli.
OG Plasmid R124.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Escherichia.
OX NCBI_TaxID=562;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=86059219; PubMed=2999074;
RA Frost L.S., Finlay B.B., Opgenorth A., Paranchych W., Lee J.S.;
RT "Characterization and sequence analysis of pilin from F-like
RT plasmids";
RL J. Bacteriol. 164:1238-1247 (1985).
DR EMBL; K03092; AAA92759.1; -.
DR GO; GO:0046821; C:extrachromosomal DNA; IEA.
KW Plasmid.
FT NON_TER 14 14
SQ SEQUENCE 14 AA; 1713 MW; 5CCA91188EB30E23 CRC64;

Query Match 2.4%; Score 26.5; DB 2; Length 14;
Best Local Similarity 77.8%; Pred. No. 6.6e+04;
Matches 7; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 117 DENFKLKHY 125
Db 4 DEN-KLKHY 11

RESULT 20
Q9QVE9 PRELIMINARY; PRT; 10 AA.
ID Q9QVE9
AC Q9QVE9;
DT 01-MAY-2000 (TReMBLrel. 13, Created)
DT 01-MAY-2000 (TReMBLrel. 13, Last sequence update)
DT 01-JUN-2002 (TReMBLrel. 21, Last annotation update)
DE Protamine MP2 intermediate protein PMP2/11 (Fragment).
OS Mus sp.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10095;
RN [1]
RP SEQUENCE.
RX MEDLINE=92174934; PubMed=1541289;
RA Chauviere M., Martinage A., Debarle M., Sautiere P., Chevaillier P.;
RT "Molecular characterization of six intermediate proteins in the
RT processing of mouse protamine p2 precursor.";
RL Eur. J. Biochem. 204:759-765 (1992).
FT NON_TER 1 1
FT NON_TER 10 10
SQ SEQUENCE 10 AA; 1029 MW; FCAD2DD8676866D1 CRC64;

Query Match 2.4%; Score 26; DB 11; Length 10;
Best Local Similarity 80.0%; Pred. No. 4.7e+04;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 124 HYGPG 128
Db 3 HQGPG 7

RESULT 21
Q9N2B9 PRELIMINARY; PRT; 12 AA.
ID Q9N2B9
AC Q9N2B9;
DT 01-OCT-2000 (TReMBLrel. 15, Created)
DT 01-OCT-2000 (TReMBLrel. 15, Last sequence update)
DT 01-JUN-2003 (TReMBLrel. 24, Last annotation update)
DE Indolethylamine N-methyltransferase (Fragment).
GN INMT.
OS Gorilla gorilla (gorilla).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Gorilla.
OX NCBI_TaxID=9593;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=gorilla-U1;
RA Kitano T., Kobayakawa H., Saitou N.;
RT "Silver Project";
RL Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.
DR EMBL; AB041364; BAA94453.1; -.
DR GO; GO:0008168; F:methyltransferase activity; IEA.
DR GO; GO:0016740; F:transferase activity; IEA.
KW Methyltransferase; Transferase.
FT NON_TER 12 12
SQ SEQUENCE 12 AA; 1289 MW; CF0798E2917861A9 CRC64;

Query Match 2.4%; Score 26; DB 6; Length 12;
Best Local Similarity 71.4%; Pred. No. 6e+04;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 97 GDFTRGD 103
Db 3 GGFTGCD 9

RESULT 22
Q9N2B8
ID Q9N2B8 PRELIMINARY; PRT; 12 AA.
AC Q9N2B8;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Indolethylamine N-methyltransferase (Fragment).
GN INMT.
OS Pongo pygmaeus (Orangutan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pongo.
OX NCBI_TaxID=9600;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=oran-Pol3;
RA Kitano T., Kobayakawa H., Saitou N.;
RT "Silver Project";
RL Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB041365; BAA94454.1; -.
DR GO; GO:0008168; F:methyltransferase activity; IEA.
DR GO; GO:0016740; F:transferase activity; IEA.
KW Methyltransferase; Transferase.
FT NON TER 12
SQ SEQUENCE 12 AA; 1290 MW; CF079554917861A9 CRC64;

Query Match 2.4%; Score 26; DB 6; Length 12;
Best Local Similarity 71.4%; Pred. No. 6e+04;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 97 GDFTRGD 103
Db 3 GGFTGGD 9

RESULT 23
Q9N2C0
ID Q9N2C0 PRELIMINARY; PRT; 12 AA.
AC Q9N2C0;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Indolethylamine N-methyltransferase (Fragment).
GN INMT.
OS Pan troglodytes (Chimpanzee).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
OX NCBI_TaxID=9598;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=chimp-220;
RA Kitano T., Kobayakawa H., Saitou N.;
RT "Silver Project";
RL Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB041363; BAA94452.1; -.
DR GO; GO:0008168; F:methyltransferase activity; IEA.
DR GO; GO:0016740; F:transferase activity; IEA.
KW Methyltransferase; Transferase.
FT NON TER 12
SQ SEQUENCE 12 AA; 1289 MW; CF0798E2917861A9 CRC64;

Query Match 2.4%; Score 26; DB 6; Length 12;
Best Local Similarity 71.4%; Pred. No. 6e+04;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 97 GDFTRGD 103
Db 3 GGFTGGD 9

RESULT 24
Q93YC8
ID Q93YC8 PRELIMINARY; PRT; 12 AA.

Q93YC8;
AC 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Putative coat protein (Fragment).
OS Nicotiana tabacum (Common tobacco).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
OC Lamiales; Solanales; Solanaceae; Nicotiana.
OX NCBI_TaxID=4097;
RN [1]
RP SEQUENCE FROM N.A.
RA van der Winden J.;
RL Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=20027532; PubMed=10557305;
RA Jakowitsch J., Mette M.F., van der Winden J., Matzke M.A.,
RA Matzke A.J.;
RT "Integrated pararetroviral sequences define a unique class of
RT dispersed repetitive DNA in plants."
RL Proc. Natl. Acad. Sci. U.S.A. 96:13241-13246(1999).
DR EMBL; AJ414170; CAC88799.1; -.
DR GO; GO:0019028; C:viral capsid; IEA.
DR GO; GO:0005198; F:structural molecule activity; IEA.
KW Coat protein.
FT NON TER 1
SQ SEQUENCE 12 AA; 1402 MW; 89226B3A0351E321 CRC64;

Query Match 2.4%; Score 26; DB 10; Length 12;
Best Local Similarity 100.0%; Pred. No. 6e+04;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 123 KHYG 126
Db 6 KHYG 9

RESULT 25
Q8GSB9
ID Q8GSB9 PRELIMINARY; PRT; 12 AA.
AC Q8GSB9;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE ENOD40-like protein.
OS Lolium perenne (Perennial ryegrass).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Poaceae;
OC Poaceae; Lolium.
OX NCBI_TaxID=4522;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=cv. Borvi; TISSUE=Stem;
RA Larsen K.;
RT "ENOD40 homolog from perennial ryegrass (Lolium perenne).";
RL Submitted (AUG-2002) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Leaf;
RA Larsen K.;
RT "ENOD40 gene from perennial ryegrass (Lolium perenne).";
RL Submitted (AUG-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF538350; AAN15133.1; -.
DR EMBL; AF538351; AAN15134.1; -.
SQ SEQUENCE 12 AA; 1455 MW; 3EF4B0A918EB1733 CRC64;

Query Match 2.4%; Score 26; DB 10; Length 12;
Best Local Similarity 40.0%; Pred. No. 6e+04;
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 149 VKTAWLDGKH 158
:: |||:

```
Db 1 MEDAWLEHLH 10

RESULT 26
Q80XV4 PRELIMINARY; PRT; 12 AA.
AC Q80XV4;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Orf4.
OS Rattus sp.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10118;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=94012815; PubMed=8408077;
RA Rao S.M., Howells R.D.;
RT "cis-acting elements in the 5'-untranslated region of rat testis
RT proenkephalin mRNA regulate translation of the precursor protein.";
RL J. Biol. Chem. 268:22164-22169(1993).
DR EMBL; S66180; AAP13974.1; -.
SQ SEQUENCE 12 AA; 1436 MW; D33C6D2A83B36776 CRC64;

Query Match 2.4%; Score 26; DB 11; Length 12;
Best Local Similarity 66.7%; Pred. No. 6e+04;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 153 WLDGKH 158
| | | |
Db 7 WDSGKH 12

RESULT 27
Q64313 PRELIMINARY; PRT; 12 AA.
AC Q64313;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Hypothetical protein.
GN ENK.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=Fisher 344; TISSUE=Striatum;
RX MEDLINE=90066445; PubMed=2573832;
RA Garrett J.E., Collard M.W., Douglass J.O.;
RT "Translational control of germ cell-expressed mRNA imposed by
RT alternative splicing: opioid peptide gene expression in rat testis.";
RL Mol. Cell. Biol. 9:4381-4389(1989).
DR EMBL; K02805; AAA60733.1; -.
KW Hypothetical protein.
SQ SEQUENCE 12 AA; 1436 MW; D33C6D2A83B36776 CRC64;

Query Match 2.4%; Score 26; DB 11; Length 12;
Best Local Similarity 66.7%; Pred. No. 6e+04;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 153 WLDGKH 158
| | | |
Db 7 WDSGKH 12

RESULT 28
Q7Z5Z6 PRELIMINARY; PRT; 13 AA.
AC Q7Z5Z6;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
```

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DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE NPC-A-11.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Shu J., Li G., He X.;
RT "Construction of cDNA expression library from nasopharyngeal carcinoma
RT tissue and screening of antigenic genes.";
RL Submitted (JUN-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY320404; AAP73806.1; -.
SQ SEQUENCE 13 AA; 1429 MW; ID0C143838017694 CRC64;

Query Match 2.4%; Score 26; DB 4; Length 13;
Best Local Similarity 71.4%; Pred. No. 6.6e+04;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 131 SMANAGK 137
|:|:|:|
Db 3 SLANWVK 9

RESULT 29
P82848 PRELIMINARY; PRT; 13 AA.
AC P82848;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Temporin-1P.
OS Rana pipiens (Northern leopard frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Rana.
OX NCBI_TaxID=8404;
RN [1]
RP SEQUENCE, FUNCTION, AND MASS SPECTROMETRY.
RC TISSUE=SKIN;
RX MEDLINE=20117700; PubMed=10651828;
RA Goraya J., Wang Y., Li Z., O'Flaherty M., Knoop F.C., Platz J.E.,
RA Conlon J.M.;
RT "Peptides with antimicrobial activity from four different families
RT isolated from the skins of the North American frogs Rana luteiventris,
RT Rana berlandieri and Rana pipiens.";
RL Bur. J. Biochem. 267:894-900(2000).
CC -!- FUNCTION: ANTIBACTERIAL ACTIVITY AGAINST GRAM-POSITIVE BACTERIUM
CC S.AUREUS.
CC -!- MASS SPECTROMETRY: MW=1368; METHOD=ELECTROSPRAY.
CC -!- SIMILARITY: BELONGS TO THE BREVININ/ESCULENTIN/GAEGURIN/RUGOSIN
CC FAMILY.
DR GO; GO:0006805; P:xenobiotic metabolism; IEA.
KW Antibiotic; Amidation.
FT MOD RES 13 13 AMIDATION.
SQ SEQUENCE 13 AA; 1370 MW; 3EF3402B9DF92338 CRC64;

Query Match 2.4%; Score 26; DB 13; Length 13;
Best Local Similarity 44.4%; Pred. No. 6.6e+04;
Matches 4; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 160 VFGKVLGEM 168
|:|:|:|
Db 4 IVGKLISGL 12

RESULT 30
Q8JDM3 PRELIMINARY; PRT; 14 AA.
AC Q8JDM3;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
```

DE Truncated tat protein (Fragment).
GN TAT.
OS Human immunodeficiency virus 1.
OC Viruses; Retroviral viruses; Retroviridae; Lentivirus.
OX NCBI_TaxID=11676;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22032414; PubMed=12036486;
RAY Long E.M., Rainwater S.M., Lavreys L., Mandalika K., Overbaugh J.;
RT "HIV Type 1 Variants Transmitted to Women in Kenya Require the CCR5
Coreceptor for Entry, Regardless of the Genetic Complexity of the
Infecting Virus.";
RL AIDS Res. Hum. Retroviruses 18:567-576 (2002).
DR EMBL; AF407149; AAM66202.1; -.
FT NON TER 1
SQ SEQUENCE 14 AA; 1442 MW; 37C58F7BF82D7AA8 CRC64;

Query Match 2.4%; Score 26; DB 15; Length 14;
Best Local Similarity 83.3%; Pred. No. 7.2e+04;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 101 RGDGTG 106
||| ||
Db 6 RGDPTG 11

RESULT 31

Q8JDM7
ID Q8JDM7 PRELIMINARY; PRT; 14 AA.
AC Q8JDM7;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Truncated tat protein (Fragment).
GN TAT.
OS Human immunodeficiency virus 1.
OC Viruses; Retroviral viruses; Retroviridae; Lentivirus.
OX NCBI_TaxID=11676;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22032414; PubMed=12036486;
RAY Long E.M., Rainwater S.M., Lavreys L., Mandalika K., Overbaugh J.;
RT "HIV Type 1 Variants Transmitted to Women in Kenya Require the CCR5
Coreceptor for Entry, Regardless of the Genetic Complexity of the
Infecting Virus.";
RL AIDS Res. Hum. Retroviruses 18:567-576 (2002).
DR EMBL; AF407149; AAM66198.1; -.
FT NON TER 1
SQ SEQUENCE 14 AA; 1442 MW; 37C58F7BF82D7AA8 CRC64;

Query Match 2.4%; Score 26; DB 15; Length 14;
Best Local Similarity 83.3%; Pred. No. 7.2e+04;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 101 RGDGTG 106
||| ||
Db 6 RGDPTG 11

RESULT 32

Q8JDM0
ID Q8JDM0 PRELIMINARY; PRT; 14 AA.
AC Q8JDM0;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Truncated tat protein (Fragment).
GN TAT.
OS Human immunodeficiency virus 1.
OC Viruses; Retroviral viruses; Retroviridae; Lentivirus.
OX NCBI_TaxID=11676;
RN [1]
RP SEQUENCE FROM N.A.

RX MEDLINE=22032414; PubMed=12036486;
RAY Long E.M., Rainwater S.M., Lavreys L., Mandalika K., Overbaugh J.;
RT "HIV Type 1 Variants Transmitted to Women in Kenya Require the CCR5
Coreceptor for Entry, Regardless of the Genetic Complexity of the
Infecting Virus.";
RL AIDS Res. Hum. Retroviruses 18:567-576 (2002).
DR EMBL; AF407150; AAM66205.1; -.
FT NON TER 1
SQ SEQUENCE 14 AA; 1442 MW; 37C58F7BF82D7AA8 CRC64;

Query Match 2.4%; Score 26; DB 15; Length 14;
Best Local Similarity 83.3%; Pred. No. 7.2e+04;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 101 RGDGTG 106
||| ||
Db 6 RGDPTG 11

RESULT 33

Q9THS3
ID Q9THS3 PRELIMINARY; PRT; 13 AA.
AC Q9THS3;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE PSH (Fragment).
GN PSH.
OS Bryopsis sp. D.
OG Chloroplast.
OC Eukaryota; Viridiplantae; Chlorophyta; Ulvophyceae; Caulerpaceae;
OC Bryopsidaceae; Bryopsis.
OX NCBI_TaxID=103787;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=96-21-02;
RA Krellwitz E.C., Kowalik K.V., Manos P.S.;
RT "Phylogenetic Study of Bryopsis (Chlorophyta) from the Western North
Atlantic and Caribbean based on Coding and Non-coding sequences of the
Chloroplast psbB Operon";
RL Submitted (JUL-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF170381; AAD56794.1; -.
DR GO; GO:0009507; C:chloroplast; IEA.
KW Chloroplast.
FT NON TER 13
SQ SEQUENCE 13 AA; 1379 MW; 2C31687A3B73A338 CRC64;

Query Match 2.4%; Score 25.5; DB 8; Length 13;
Best Local Similarity 75.0%; Pred. No. 7.3e+04;
Matches 6; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

QY 134 NAGKDTNG 141
|:|:|:| ||
Db 4 NSGKD-NG 10

RESULT 34

Q84F20
ID Q84F20 PRELIMINARY; PRT; 9 AA.
AC Q84F20;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Alpha-amylase (Fragment).
OS Bacillus subtilis.
OC Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
OX NCBI_TaxID=1423;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=89034018; PubMed=2460441;
RA Nakamura K., Itoh Y., Yamane K.;
RT "Enhanced secretion of beta-lactamase on structural modification of
the Bacillus subtilis alpha-amylase signal peptide.";

RESULT 39

Q9BQQ1 PRELIMINARY; PRT; 12 AA.
AC Q9BQQ1;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
DE BA28009.2.2 (Novel protein (Isoform 3)) (Fragment).
GN DJ631M13.5.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Lloyd D.;
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AL121582; CAC36069.1; -.
FT NON TER 1
SQ SEQUENCE 12 AA; 1017 MW; 4789B7218E787877 CRC64;

Query Match 2.3%; Score 25; DB 4; Length 12;
Best Local Similarity 83.3%; Pred. No. 7.3e+04;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 104 GTGGKS 109

Db 7 GGGKS 12

RESULT 40

Q9XNR6 PRELIMINARY; PRT; 12 AA.
AC Q9XNR6;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE NADH:ubiquinone oxidoreductase subunit 3 (Fragment).
GN NAD3.
OS Pyraliella littoralis.
OG Mitochondrion.
OC Eukaryota; stramenopiles; Phaeophyceae; Ectocarpales;
OC Acinetosporaceae; Pyraliella.
OX NCBI_TaxID=2885;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=roscoff;
RX MEDLINE=99346148; PubMed=10415341;
RA Oudot M.P., Kloareg B., Loiseaux-de Goer S.;
RT "The mitochondrial pyraliella littoralis nad11 gene contains only the
RT N-terminal FeS-binding domain."
RL Gene 235:131-137(1999).
DR EMBL; AF110139; AAD44051.1; -.
DR GO; GO:0005739; C:mitochondrion; IEA.
KW Mitochondrion; Ubiquinone.
FT NON TER 12
SQ SEQUENCE 12 AA; 1501 MW; 49750746424B5B13 CRC64;

Query Match 2.3%; Score 25; DB 8; Length 12;
Best Local Similarity 45.5%; Pred. No. 7.3e+04;
Matches 5; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 120 FKLKHVPGWV 130

Db 2 FLLKEYYPALI 12

RESULT 41

Q8H6E6 PRELIMINARY; PRT; 12 AA.
ID Q8H6E6
AC Q8H6E6;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)

DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE ENOD40-like protein.
OS Hordeum vulgare (Barley).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae;
OC Triticeae; Hordeum.
OX NCBI_TaxID=4513;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=cv. Orthega;
RA Larsen K.;
RT "ENOD40 homologue from barley (Hordeum vulgare).";
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF542513; AAN28683.1; -.
SQ SEQUENCE 12 AA; 1367 MW; 3EEABFA918EB1733 CRC64;

Query Match 2.3%; Score 25; DB 10; Length 12;
Best Local Similarity 57.1%; Pred. No. 7.3e+04;
Matches 4; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 152 AWLDGKH 158

Db 4 AWLEHLH 10

RESULT 42

Q80IG7 PRELIMINARY; PRT; 12 AA.
AC Q80IG7;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Mini-cistron protein.
OS Choristoneura fumiferana nuclear polyhedrosis virus (CfMNPV).
OC Viruses; dsDNA viruses, no RNA stage; Baculoviridae;
OC Nucleopolyhedrovirus.
OX NCBI_TaxID=208973;
RN [1]
RP SEQUENCE FROM N.A.
RA Carstens E.B.;
RT "Identification and analysis of the CfMNPV P143 gene."
RL Submitted (FEB-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF127530; AAF36457.1; -.
SQ SEQUENCE 12 AA; 1252 MW; C878D87A88B2CDD9 CRC64;

Query Match 2.3%; Score 25; DB 12; Length 12;
Best Local Similarity 50.0%; Pred. No. 7.3e+04;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 55 GLFGKTVPKT 64

Db 3 GGFVTTPT 12

RESULT 43

Q7ZZN7 PRELIMINARY; PRT; 13 AA.
AC Q7ZZN7;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Zinc finger protein (Fragment).
GN ZIC3.
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Pipidae;
OC Xenopodinae; Xenopus.
OX NCBI_TaxID=8355;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Cerebellum;
RA Weber J.R., Sokol S.Y.;

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RT "Identification of a phylogenetically conserved activin-responsive
RT enhancer in the Zic3 gene.";
RL Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF506277; AAP20808.1; -.
FT NON_TER 1
FT NON_TER 13 13
SQ SEQUENCE 13 AA; 1569 MW; 819B7A159F531861 CRC64;

Query Match 2.3%; Score 25; DB 13; Length 13;
Best Local Similarity 83.3%; Pred. No. 8e+04;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 73 TGEKGF 78
Db |||||
6 TGEKPF 11

RESULT 44
Q98YMI PRELIMINARY; PRT; 13 AA.
AC Q98YMI;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Truncated pol protein (Fragment).
GN POL.
OS Human immunodeficiency virus 1.
OC Viruses; Retroviral viruses; Retroviridae; Lentivirus.
OX NCBI_TaxID=11676;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=991043;
RA Schmidt B., Walter H., Moschik G., Paatz C., Werwein M., Schwingel E.,
RA Korn K.;
RT "Recovery of HIV-1 pol gene sequences by direct sequencing of
RT amplification products derived from plasma samples.";
RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF347446; AAK32523.1; -.
FT NON_TER 1
FT NON_TER 13 13
SQ SEQUENCE 13 AA; 1390 MW; 805408704623D1AA CRC64;

Query Match 2.3%; Score 25; DB 15; Length 13;
Best Local Similarity 38.5%; Pred. No. 8e+04;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 178 KTDSRDKPLKDVII 190
Db :|:|:|:|:|:|
1 ETGADDTVLEDII 13

RESULT 45
Q99PB8 PRELIMINARY; PRT; 14 AA.
AC Q99PB8;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Adenosine kinase (EC 2.7.1.20) (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Singh B., Lin A., Wu Z.-C., Gupta R.S.;
RT "Gene Structure for Adenosine Kinase in Chinese Hamster and Human:
RT High Frequency Mutants of CHO cells involve deletions of several
RT introns and exons.";
RL DNA Cell Biol. 0:0-0(2001).
DR EMBL; AF318953; AAK07186.1; -.
DR GO; GO:0004001; F:adenosine kinase activity; IEA.
DR GO; GO:0016301; F:kinase activity; IEA.
DR GO; GO:0016740; F:transferase activity; IEA.

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OX NCBI_TaxID=31087;
RN [1]
RP SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=87057369; PubMed=3782138;
RA Lazarovici P., Primor N., Loew L.M.;
RT "Purification and pore-forming activity of two hydrophobic
RT polypeptides from the secretion of the Red sea moses sole (Pardachirus
RT marmoratus).";
RL J. Biol. Chem. 261:16704-16713(1986).
CC -!- FUNCTION: Exhibits unusual shark repellent and surfactant
CC properties. Forms voltage-dependent, ion-permeable channels in
CC membranes. At high concentration causes cell membrane lysis. Shown
CC to be 5-10 times more toxic, cytolytic and active in membrane pore
CC formation than pardaxin II.
CC -!- SUBUNIT: Monomer. In aqueous solution exists as a tetramer.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the pardaxin family.
KW Toxin.
FT NON_TER 10 10
SQ SEQUENCE 10 AA; 1063 MW; D399C36760572DD9 CRC64;

Query Match 2.8%; Score 30; DB 1; Length 10;
Best Local Similarity 71.4%; Pred. No. 4.6e+03;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 15 FFLLPG 21
Db |||:|
2 FFALIPG 8

RESULT 3
CA31_LITCI STANDARD; PRT; 11 AA.
AC P82089;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Caerulein 3.1/3.1Y4.
OS Litoria citropa (Australian blue mountains tree frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Hylidae;
OC Pelodyadinae; Litoria.
OX NCBI_TaxID=94770;
RN [1]
RP SEQUENCE, AND MASS SPECTROMETRY.
RC TISSUE=Skin secretion;
RX MEDLINE=20057701; PubMed=10589099;
RA Wabnitz P.A., Bowie J.H., Tyler M.J.;
RT "Caerulein-like peptides from the skin glands of the Australian blue
RT mountains tree frog Litoria citropa. Part 1. Sequence determination
RT using electrospray mass spectrometry.";
RL Rapid Commun. Mass Spectrom. 13:2498-2502(1999).
CC -!- FUNCTION: Hypotensive neuropeptide (Probable).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Skin dorsal glands.
CC -!- PTM: Isoform 3.1Y4 differs from isoform 3.1 in not being
CC sulfated.
CC -!- MASS SPECTROMETRY: MW=1407; METHOD=Electrospray.
CC -!- SIMILARITY: Belongs to the gastrin/cholecystokinin family.
DR InterPro; IPR001651; Gastrin.
DR PROSITE; PS00259; GASTRIN; FALSE NEG.
KW Amphibian defense peptide; Hypotensive agent; Amidation; Sulfation;
KW Pyrrolidone carboxylic acid.
FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD_RES 4 4 SULFATION.
FT MOD_RES 11 11 AMIDATION.
SQ SEQUENCE 11 AA; 1347 MW; 10DAB7D67861A86B CRC64;

Query Match 2.8%; Score 30; DB 1; Length 11;
Best Local Similarity 66.7%; Pred. No. 5.1e+03;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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QY 125 YGPGWV 130
Db |||:|
4 YGTGWM 9

RESULT 4
GER2_HORVU STANDARD; PRT; 13 AA.
AC P28526;
DT 01-DEC-1992 (Rel. 24, Created)
DT 01-DEC-1992 (Rel. 24, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Germin GS2 (Fragment).
OS Hordeum vulgare (Barley).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae;
OC Triticeae; Hordeum.
OX NCBI_TaxID=4513;
RN [1]
RP SEQUENCE.
RC STRAIN=cv. CM 72; TISSUE=Root;
RA Hurkman W.J., Tao H.P., Tanaka C.K.;
RT "Germin-like polypeptides increase in barley roots during salt
RT stress.";
RL Plant Physiol. 97:366-374(1991).
CC -!- FUNCTION: May play a role in altering the properties of cell walls
CC during germinative growth.
CC -!- SUBUNIT: Oligomer (believed to be a pentamer but probably hexamer)
CC (by similarity).
CC -!- SUBCELLULAR LOCATION: SOLUBLE, MICROSMAL AND CELL WALL FRACTIONS.
CC -!- TISSUE SPECIFICITY: Roots and coleoptile. In roots, present in the
CC mature region, but not in the tip. Not detected in leaves.
CC -!- INDUCTION: Increased by salt stress in roots and decreased by salt
CC stress in coleoptile.
CC -!- PTM: Glycosylated.
CC -!- SIMILARITY: Belongs to the germin family.
DR InterPro; IPR001929; Germin.
DR PROSITE; PS00725; GERMIN; PARTIAL.
KW Apoplast; Cell wall; Glycoprotein; Multigene family.
FT UNSURE 10 10
FT NON_TER 13 13
SQ SEQUENCE 13 AA; 1484 MW; 43FB4A1AA3B7B6D7 CRC64;

Query Match 2.8%; Score 30; DB 1; Length 13;
Best Local Similarity 66.7%; Pred. No. 6.1e+03;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 185 PLKDVIIAD 193
Db |||:|
5 PLQDFCIAD 13

RESULT 5
CA32_LITCI STANDARD; PRT; 11 AA.
AC P82090;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Caerulein 3.2/3.2Y4.
OS Litoria citropa (Australian blue mountains tree frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Hylidae;
OC Pelodyadinae; Litoria.
OX NCBI_TaxID=94770;
RN [1]
RP SEQUENCE, AND MASS SPECTROMETRY.
RC TISSUE=Skin secretion;
RX MEDLINE=20057701; PubMed=10589099;
RA Wabnitz P.A., Bowie J.H., Tyler M.J.;
RT "Caerulein-like peptides from the skin glands of the Australian blue
RT mountains tree frog Litoria citropa. Part 1. Sequence determination
RT using electrospray mass spectrometry.";
```



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RL Rapid Commun. Mass Spectrom. 13:2498-2502(1999).
CC -!- FUNCTION: Hypotensive neuropeptide (Probable).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Skin dorsal glands.
CC -!- PTM: Isoform 3.2Y4 differs from isoform 3.2 in not being
CC sulfated.
CC -!- MASS SPECTROMETRY: MW=1423; METHOD=Electrospray.
CC -!- SIMILARITY: Belongs to the gastrin/cholecystokinin family.
DR InterPro; IPR001651; Gastrin.
DR PROSITE; PS00259; GASTRIN; FALSE_NEG.
KW Amphibian defense peptide; Hypotensive agent; Amidation; Sulfation;
KW Pyrrolidone carboxylic acid.
FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD_RES 4 4 SULFATION.
FT MOD_RES 11 11 AMIDATION.
SQ SEQUENCE 11 AA; 1363 MW; 10DAB8867861A86B CRC64;

Query Match 2.7%; Score 29; DB 1; Length 11;
Best Local Similarity 80.0%; Pred. No. 6.2e+03;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 125 YGPGW 129
Db ||||
4 YGTGW 8

RESULT 6
GER1_HORVU STANDARD; PRT; 13 AA.
AC P28525;
DT 01-DEC-1992 (Rel. 24, Created)
DT 01-DEC-1992 (Rel. 24, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Germin GS1 (Fragment).
OS Hordeum vulgare (Barley).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae;
OC Triticeae; Hordeum.
OC NCBI_TaxID=4513;
RN [1]
RP SEQUENCE.
RC STRAIN=cv. CM 72; TISSUE=Root;
RA Hurkman W.J., Tao H.P., Tanaka C.K.;
RT "Germin-like polypeptides increase in barley roots during salt
RT stress.";
RL Plant Physiol. 97:366-374(1991).
CC -!- FUNCTION: May play a role in altering the properties of cell
CC walls during germinative growth.
CC -!- SUBUNIT: Oligomer (believed to be a pentamer but probably hexamer)
CC (By similarity).
CC -!- SUBCELLULAR LOCATION: SOLUBLE, MICROSOMAL AND CELL WALL FRACTIONS.
CC -!- TISSUE SPECIFICITY: Roots and coleoptile. In roots, present in
CC the mature region, but not in the tip. Not detected in leaves.
CC -!- INDUCTION: Increased by salt stress in roots and decreased by salt
CC stress in coleoptile.
CC -!- PTM: Glycosylated.
CC -!- SIMILARITY: Belongs to the germin family.
DR InterPro; IPR001929; Germin.
DR PROSITE; PS00725; GERMIN; PARTIAL.
KW Apoplast; Cell wall; Glycoprotein; Multigene family.
FT UNSURE 10 10
FT NON_TER 13 13
SQ SEQUENCE 13 AA; 1470 MW; 43FB588AA3B7B6D7 CRC64;

Query Match 2.7%; Score 29; DB 1; Length 13;
Best Local Similarity 55.6%; Pred. No. 7.4e+03;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 185 PLKDVIIAD 193
Db ||:|:|
5 PLQDFCVAD 13
```

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RESULT 7
TAT_HV1W2 STANDARD; PRT; 14 AA.
AC P12509;
DT 01-OCT-1989 (Rel. 12, Created)
DT 01-OCT-1989 (Rel. 12, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE TAT protein (Transactivating regulatory protein) (Fragment).
GN TAT.
OS Human immunodeficiency virus type 1 (WMJ2 isolate) (HIV-1).
OC Viruses; Retrovirdae; Retroviridae; Lentivirus.
OX NCBI_TaxID=11705;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=86235450; PubMed=3012778;
RA Hahn B.H., Shaw G.M., Taylor M.E., Redfield R.R., Markham P.D.,
RA Salahuddin S.Z., Wong-Staal F., Gallo R.C., Parks E.S., Parks W.P.;
RT "Genetic variation in HTLV-III/LAV over time in patients with AIDS or
RT at risk for AIDS.";
RL Science 232:1548-1553(1986).
CC -!- FUNCTION: Transcriptional regulator that acts by binding to the
CC trans-activating responsive sequence (TAR) RNA element and
CC activates transcription initiation and/or elongation from the LTR
CC promoter.
CC -!- SUBUNIT: Binds cyclin T1 (By similarity).
CC -!- SUBCELLULAR LOCATION: Nuclear; nucleolar.
CC -!- MISCELLANEOUS: ISOLATES WMJ1, WMJ2, AND WMJ3 WERE OBTAINED FROM
CC BLOOD SAMPLES SEQUENTIALLY TAKEN FROM A TWO-YEAR OLD HAITIAN WHO
CC WAS PERINATALLY INFECTED BY HER MOTHER.
CC -----
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CC -----
CC EMBL; M12507; AAB12991.1; -.
CC HIV; M12507; TAT$WMJ2.
CC Transcription regulation; Activator; RNA-binding; Nuclear protein;
CC AIDS.
CC NON_TER 1 1
CC SEQUENCE 14 AA; 1467 MW; 37CC737BFEF67AA8 CRC64;

Query Match 2.7%; Score 29; DB 1; Length 14;
Best Local Similarity 75.0%; Pred. No. 8.1e+03;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 101 RGDGTGCK 108
Db |||||
6 RGDPTGPK 13

RESULT 8
TAT_HV1Z8 STANDARD; PRT; 14 AA.
AC P12511;
DT 01-OCT-1989 (Rel. 12, Created)
DT 01-OCT-1989 (Rel. 12, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE TAT protein (Transactivating regulatory protein) (Fragment).
GN TAT.
OS Human immunodeficiency virus type 1 (Z-84 isolate) (HIV-1).
OC Viruses; Retrovirdae; Retroviridae; Lentivirus.
OX NCBI_TaxID=11681;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=88281278; PubMed=3395517;
RA Yourno J., Josephs S.F., Reitz M.S. Jr., Zagury D., Wong-Staal F.,
RA Gallo R.C.;
RT "Nucleotide sequence analysis of the env gene of a new Zairian
RT isolate of HIV-1.";
```

RL AIDS Res. Hum. Retroviruses 4:165-173(1988).
CC -!- FUNCTION: Transcriptional regulator that acts by binding to the
CC trans-activating responsive sequence (TAR) RNA element and
CC activates transcription initiation and/or elongation from the LTR
CC promoter.
CC -!- SUBUNIT: Binds cyclin T1 (By similarity).
CC -!- SUBCELLULAR LOCATION: Nuclear; nucleolar.
CC -!- MISCELLANEOUS: THE Z-84 ISOLATE WAS TAKEN FROM A 54 YEAR-OLD
CC ZAIREAN MALE.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; J03653; AAA44685.1; -.
DR HIV; J03653; TAT5JY1.
KW Transcription regulation; Activator; RNA-binding; Nuclear protein;
KW AIDS.
FT NON TER 1 1
SQ SEQUENCE 14 AA; 1453 MW; 37CC737BF82D7AA8 CRC64;

Query Match 2.7%; Score 29; DB 1; Length 14;
Best Local Similarity 75.0%; Pred. No. 8.1e+03;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 101 RGDGTGGK 108
||| |||
Db 6 RGDPTGPK 13

RESULT 9
RPCH PANBO
ID RPCH PANBO STANDARD; PRT; 8 AA.
AC P08939;
DT 01-NOV-1988 (Rel. 09, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Red pigment concentrating hormone (RPCH).
OS Pandanus borealis (Northern red shrimp).
OC Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
OC Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Caridea; Pandaloidae;
OC Pandalidae; Pandalus.
OX NCBI_TaxID=6703;
RN [1]
RP SEQUENCE.
RX MEDLINE=75054965; PubMed=4433569;
RA Fernlund P.;
RT "Structure of the red-pigment-concentrating hormone of the shrimp,
RT Pandanus borealis.";
RL Biochim. Biophys. Acta 371:304-311(1974).
CC -!- FUNCTION: This hormone adapts the animal to light backgrounds by
CC stimulating concentration of the pigment of its red body-
CC chromatophores.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the AKH / HRTH / RPCH family.
DR PIR; A61348; A61348.
DR InterPro; IPR002047; AKH.
DR PROSITE; PS00256; AKH; 1.
KW Pigment; Hormone; Amidation; Pyrrolidone carboxylic acid.
FT MOD_RES 1 1
FT MOD_RES 8 8
FT SEQUENCE 8 AA; 948 MW; 86786775B9C44736 CRC64;

Query Match 2.6%; Score 28; DB 1; Length 8;
Best Local Similarity 50.0%; Pred. No. 1.4e+05;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 124 HYGPBW 129
:: |||

Db 3 NFSPGW 8
RESULT 10
HTF NAUCI
ID HTF NAUCI STANDARD; PRT; 10 AA.
AC P10339;
DT 01-JUL-1989 (Rel. 11, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Hypertrehalosaemic hormone (HTH) (Hypertrehalosaemic neuropeptide).
OS Nauphoeta cinerea (Cinereous cockroach) (Gray cockroach),
OS Leucophaea maderae (Madeira cockroach),
OS Blattella germanica (German cockroach), and
OS Gromphadorhina portentosa (Madagascan hissing cockroach).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blaberoidea;
OC Blaberidae; Nauphoeta.
OX NCBI_TaxID=6990, 6988, 6973, 36953;
RN [1]
RP SEQUENCE.
RC SPECIES=N.cinerea; TISSUE=Corpora cardiaca;
RX MEDLINE=87100208; PubMed=3801028;
RA Gaede G., Rinehart K.L. Jr.;
RT "Amino acid sequence of a hypertrehalosaemic neuropeptide from the
RT corpus cardiacum of the cockroach, Nauphoeta cinerea.";
RL Biochem. Biophys. Res. Commun. 141:774-781(1986).
RN [2]
RP SEQUENCE.
RC SPECIES=L.maderae, G.portentosa, and B.germanica;
RX MEDLINE=90253659; PubMed=2340112;
RA Gaede G., Rinehart K.L. Jr.;
RT "Primary structures of hypertrehalosaemic neuropeptides isolated from
RT the corpora cardiaca of the cockroaches Leucophaea maderae,
RT Gromphadorhina portentosa, Blattella germanica and Blattella orientalis
RT and of the stick insect Extatosoma tiaratum assigned by tandem fast
RT atom bombardment mass spectrometry.";
RL Biol. Chem. Hoppe-Seyler 371:345-354(1990).
RN [3]
RP SEQUENCE.
RC SPECIES=B.germanica;
RX MEDLINE=91179584; PubMed=2080017;
RA Veenstra J.A., Camps F.;
RT "Structure of the hypertrehalosaemic neuropeptide of the German
RT cockroach, Blattella germanica.";
RL Neuropeptides 15:107-109(1990).
CC -!- FUNCTION: Hypertrehalosaemic factors are neuropeptides that
CC elevate the level of trehalose in the hemolymph of insects.
CC major carbohydrate in the hemolymph of insects).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the AKH / HRTH / RPCH family.
DR PIR; A26381; A26381.
DR PIR; A60421; A60421.
DR PIR; S08997; S08997.
DR PIR; S08998; S08998.
DR InterPro; IPR002047; AKH.
DR PROSITE; PS00256; AKH; 1.
KW Neuropeptide; Amidation; Pyrrolidone carboxylic acid.
FT MOD_RES 1 1
FT MOD_RES 10 10
FT SEQUENCE 10 AA; 1092 MW; 056236786775B9C4 CRC64;

Query Match 2.6%; Score 28; DB 1; Length 10;
Best Local Similarity 50.0%; Pred. No. 6.9e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 124 HYGPBW 129
:: |||
Db 3 NFSPGW 8

RESULT 11
LPAA_PORGI

ID LPAA_PORGI STANDARD; PRT; 13 AA.
AC P81411;
DT 15-DEC-1998 (Rel. 37, Created)
DT 15-DEC-1998 (Rel. 37, Last sequence update)
DT 15-DEC-1998 (Rel. 37, Last annotation update)
DE Lipid-A-associated protein (Fragment).
OS Porphyromonas gingivalis (Bacteroides gingivalis).
OC Bacteria; Bacteroidetes; Bacteroides (class); Bacteroidales;
OC Porphyromonadaceae; Porphyromonas.
OX NCBI_TaxID=837;
RN [1]
RP SEQUENCE.
RC STRAIN=W50;
RX MEDLINE=99061194; PubMed=9846737;
RA Sharp L., Poole S., Reddi K., Fletcher J., Nair S., Wilson M.,
RA Curtis M., Henderson B., Tabona P.;
RT "A lipid A-associated protein of Porphyromonas gingivalis, derived
RT from the haemagglutinating domain of the RI protease gene family, is
RT a potent stimulator of interleukin 6 synthesis."
RL Microbiology 144:3019-3026(1998).
CC -!- FUNCTION: IS ASSOCIATED WITH LIPID A, A PHOSPHORYLATED GLYCOLIPID
CC THAT ANCHORS THE LIPOPOLYSACCHARIDE TO THE OUTER MEMBRANE OF THE
CC CELL.
CC VARIANT 12 12 12 G -> F.
FT NON TER 13 13
SQ SEQUENCE 13 AA; 1346 MW; 38EA796EAF63AB7 CRC64;

Query Match 2.6%; Score 28; DB 1; Length 13;
Best Local Similarity 55.6%; Pred. No. 9.1e+03;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 134 NACKDTNGS 142
| | | | |
Db 5 NPKDXTDGN 13

RESULT 12
AL11_CARMA
ID AL11_CARMA STANDARD; PRT; 9 AA.
AC P81814;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 30-MAY-2000 (Rel. 39, Last annotation update)
DE Carcinus maenas (Common shore crab) (Green crab).
OS Carcinus maenas (Common shore crab) (Green crab).
OC Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
OC Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura;
OC Eubranchyura; Portunoidae; Portunidae; Carcinus.
OX NCBI_TaxID=6759;
RN [1]
RP SEQUENCE.
RC TISSUE=Cerebral ganglion, and Thoracic ganglion;
RX MEDLINE=98121193; PubMed=9461295;
RA Duve H., Johnsen A.H., Maestro J.-L., Scott A.G., Jaros P.P.,
RA Thorpe A.;
RT "Isolation and identification of multiple neuropeptides of the
RT allatostatin superfamily in the shore crab Carcinus maenas."
RL Eur. J. Biochem. 250:727-734(1997).
CC -!- FUNCTION: May act as a neurotransmitter or neuromodulator.
CC -!- SIMILARITY: Belongs to the allatostatin family.
KW Neuropeptide; Amidation; Multigene family.
FT MOD RES 9 9
SQ SEQUENCE 9 AA; 927 MW; 832D79CDCB46D861 CRC64;

Query Match 2.5%; Score 27; DB 1; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.4e+05;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 72 ATGKGF 79
| | | | |
Db 1 ATGQYAFG 8

RESULT 13
GONL_SQUAC
ID GONL_SQUAC STANDARD; PRT; 10 AA.
AC P27429;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Gonadoliberin (Gonadotropin-releasing hormone) (GnRH) (LH-RH)
DE (Luliberin).
OS Squalus acanthias (Spiny dogfish).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Chondrichthyes;
OC Elasmobranchii; Squalia; Squaloidei; Squalidae; Squalus.
OX NCBI_TaxID=7797;
RN [1]
RP SEQUENCE.
RC TISSUE=Brain;
RX MEDLINE=92335300; PubMed=1631133;
RA Lovejoy D.A., Fischer W.H., Ngamvongchon S., Craig A.G.,
RA Nahorniak C.S., Peter R.E., Rivier J.E., Sherwood N.M.;
RT "Distinct sequence of gonadotropin-releasing hormone (GnRH) in
RT dogfish brain provides insight into GnRH evolution."
RL Proc. Natl. Acad. Sci. U.S.A. 89:6373-6377(1992).
CC -!- FUNCTION: Stimulates the secretion of gonadotropins.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the GnRH family.
DR PIR; A46030; A46030.
DR InterPro; IPR002012; GnRH.
DR Pfam; PF00446; GnRH; 1.
DR PROSITE; PS00473; GnRH; 1.
KW Hormone; Amidation; Hypothalamus; Pyrrolidone carboxylic acid.
FT MOD RES 1 1
FT SEQUENCE 10 AA; 1204 MW; 284B32337871F5A3 CRC64;
SQ

Query Match 2.5%; Score 27; DB 1; Length 10;
Best Local Similarity 37.5%; Pred. No. 8.4e+03;
Matches 3; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 123 KHYGPGWV 130
: | : | : |
Db 1 QHWSHGWL 8

RESULT 14
CRBL_VESMA
ID CRBL_VESMA STANDARD; PRT; 13 AA.
AC P17232;
DT 01-AUG-1990 (Rel. 15, Created)
DT 01-AUG-1990 (Rel. 15, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Vespid chemotactic peptide M (VesCP-M).
OS Vespa mandarinia (Hornet).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Hymenoptera; Apocrita; Vespoidea;
OC Vespidae; Vespinae; Vespa.
OX NCBI_TaxID=7446;
RN [1]
RP SEQUENCE.
RC TISSUE=Venom;
RA Yasuhara T., Nakajima T., Fukuda K., Tsukamoto Y., Mori M., Kitada C.,
RA Fujino M.;
RL (In) Muneke E. (eds.);
RL Peptide chemistry 1983, pp.185-190, Protein Research Foundation,
RL Osaka (1984).
CC -!- FUNCTION: Mast cell degranulating peptide. Induces the chemotaxis
CC of neutrophils.
KW Mast cell degranulation; Chemotaxis; Amidation.
FT MOD RES 13 13
SQ SEQUENCE 13 AA; 1384 MW; 2650402B9DF92338 CRC64;

Query Match 2.5%; Score 27; DB 1; Length 13;
Best Local Similarity 44.4%; Pred. No. 1.1e+04;
Matches 4; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 160 VFGKVLGEM 168
: ||: ||:
Db 4 ILGKLLSGL 12

RESULT 15

CRBL_VESTR
ID CRBL_VESTR STANDARD; PRT; 13 AA.
AC P17231;
DT 01-AUG-1990 (Rel. 15, Created)
DT 01-AUG-1990 (Rel. 15, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Vespil chemotactic peptide T (VSCP-T).
OS Vespa tropica (Hornet).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Vespoidea;
OC Vespidae; Vespinae; Vespa.
OX NCBI_TaxID=7450;
RN [1]
RP SEQUENCE.
RC TISSUE=Venom;
RA Yasuhara T., Nakajima T., Erspaer V.;
RL (in) Sakakibara S. (eds.);
RL Peptide chemistry 1982, pp.213-218, Protein Research Foundation,
RL Osaka (1983).
CC -!- FUNCTION: Mast cell degranulating peptide. Induces the chemotaxis
CC of neutrophils.
KW Mast cell degranulation; Chemotaxis; Amidation.
FT MOD_RES 13
SQ SEQUENCE 13 AA; 1354 MW; 220140365DFE5338 CRC64;

Query Match 2.5%; Score 27; DB 1; Length 13;
Best Local Similarity 44.4%; Pred. No. 1.1e+04;
Matches 4; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 160 VFGKVLGEM 168
: ||: ||:
Db 4 ILGKLLSGL 12

RESULT 16

TEMF_RANTE
ID TEMF_RANTE STANDARD; PRT; 13 AA.
AC P56921;
DT 30-MAY-2000 (Rel. 39, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Temporin F.
OS Rana temporaria (European common frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
OX NCBI_TaxID=8407;
RN [1]
RP SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=97175050; PubMed=9022710;
RA Simmaco M., Mignogna G., Canofeni S., Miele R., Mangoni M.L.,
RA Barra D.;
RT "Temporins, antimicrobial peptides from the European red frog Rana
RT temporaria.";
RL Eur. J. Biochem. 242:788-792(1996).
CC -!- FUNCTION: Has antibacterial activity against Gram-negative and
CC Gram-positive bacteria.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Skin.
CC -!- SIMILARITY: Belongs to the brevinin family.
KW Amphibian defense peptide; Antibiotic; Amidation.
FT MOD_RES 13
SQ SEQUENCE 13 AA; 1370 MW; 2653612B9DECC338 CRC64;

Query Match 2.5%; Score 27; DB 1; Length 13;
Best Local Similarity 55.6%; Pred. No. 1.1e+04;

Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 160 VFGKVLGEM 168
: ||: ||:
Db 4 LIGKVLSGI 12

RESULT 17

TKN_KASSE
ID TKN_KASSE STANDARD; PRT; 12 AA.
AC P08611;
DT 01-AUG-1988 (Rel. 08, Created)
DT 01-AUG-1988 (Rel. 08, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Kassinin.
OS Kassina senegalensis (Senegal running frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Hyperoliidae;
OC Kassina.
OX NCBI_TaxID=8415;
RN [1]
RP SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=77246385; PubMed=891753;
RA Anastasi A., Montecucchi P.C., Erspaer V., Visser J.;
RT "Amino acid composition and sequence of kassinin, a tachykinin
RT dodecapeptide from the skin of the African frog Kassina
RT senegalensis.";
RL Experientia 33:857-858(1977).
CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,
CC evoke behavioral responses, are potent vasodilators and
CC secretagogues, and contract (directly or indirectly) many smooth
CC muscles.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Skin.
CC -!- SIMILARITY: Belongs to the tachykinin family.
DR PIR; S07206; S07206.
DR PDB; 1MYU; 16-OCT-02.
DR InterPro; IPR002040; Tachy Neurokinin.
DR Pfam; PF02202; Tachykinin; 1.
DR PROSITE; PS00267; TACHYKININ; 1.
KW Amphibian defense peptide; Tachykinin; Neuropeptide; Amidation;
KW 3D-structure.
FT MOD_RES 12
SQ SEQUENCE 12 AA; 1336 MW; 91757AB89DD6DAB5 CRC64;

Query Match 2.4%; Score 26.5; DB 1; Length 12;
Best Local Similarity 63.6%; Pred. No. 1.1e+04;
Matches 7; Conservative 1; Mismatches 2; Indels 1; Gaps 1;

QY 61 VPKTVDNFVAL 71
: ||: ||:
Db 2 VPKS-DQFVGL 11

RESULT 18

GON2_CHICK
ID GON2_CHICK STANDARD; PRT; 10 AA.
AC P37043; P20408; P81750;
DT 01-FEB-1991 (Rel. 17, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Gonadoliberin II (Gonadotropin-releasing hormone II) (GnRH-II)
DE (LH-RH II) (Luliberin II).
OS Gallus gallus (Chicken),
OS Alligator mississippiensis (American alligator),
OS Squalus acanthias (Spiny dogfish),
OS Hydrolagus colliei (Spotted ratfish) (Pacific ratfish), and
OS Clupea pallasii (Pacific herring).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
OC Gallus.
OX NCBI_TaxID=9031, 8496, 7797, 7873, 30724;

RN [1]
RP SEQUENCE.
RC SPECIES=Chicken; TISSUE=Hypothalamus;
RX MEDLINE=84222059; PubMed=6427779;
RA Miyamoto K., Hasegawa Y., Nomura M., Igarashi M., Kangawa K.,
RA Matsuo H.;
RT "Identification of the second gonadotropin-releasing hormone in
RT chicken hypothalamus: evidence that gonadotropin secretion is
RT probably controlled by two distinct gonadotropin-releasing hormones
RT in avian species.";
RL Proc. Natl. Acad. Sci. U.S.A. 81:3874-3878(1984).
RN [2]
RP SEQUENCE.
RC SPECIES=A.mississippiensis; TISSUE=Brain;
RX MEDLINE=91352338; PubMed=1882082;
RA Lovejoy D.A., Fischer W.H., Parker D.B., McRory J.E., Park M.,
RA Lance V., Swanson P., Rivier J.E., Sherwood N.M.;
RT "Primary structure of two forms of gonadotropin-releasing hormone
RT from brains of the American alligator (Alligator mississippiensis).";
RL Regul. Pept. 33:105-116(1991).
RN [3]
RP SEQUENCE.
RC SPECIES=S.acanthias; TISSUE=Brain;
RX MEDLINE=92335300; PubMed=1631133;
RA Lovejoy D.A., Fischer W.H., Ngamvongchon S., Craig A.G.,
RA Nahorniak C.S., Peter R.E., Rivier J.E., Sherwood N.M.;
RT "Distinct sequence of gonadotropin-releasing hormone (GnRH) in
RT dogfish brain provides insight into GnRH evolution.";
RL Proc. Natl. Acad. Sci. U.S.A. 89:6373-6377(1992).
RN [4]
RP SEQUENCE.
RC SPECIES=H.colliei; TISSUE=Brain;
RX MEDLINE=91340067; PubMed=1678723;
RA Lovejoy D.A., Sherwood N.M., Fischer W.H., Jackson B.C., Rivier J.E.,
RA Lee T.;
RT "Primary structure of gonadotropin-releasing hormone from the brain
RT of a holcephalan (ratfish: Hydrolagus colliei).";
RL Gen. Comp. Endocrinol. 82:152-161(1991).
RN [5]
RP SEQUENCE, AND FUNCTION.
RC SPECIES=C.pallasii; TISSUE=Brain, and Pituitary;
RX MEDLINE=20114351; PubMed=10650929;
RA Carolsfeld J., Powell J.F.F., Park M., Fischer W.H., Craig A.G.,
RA Chang J.P., Rivier J.E., Sherwood N.M.;
RT "Primary structure and function of three gonadotropin-releasing
RT hormones, including a novel form, from an ancient teleost, herring.";
RL Endocrinology 141:505-512(2000).
CC -!- FUNCTION: Stimulates the secretion of gonadotropins.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the GnRH family.
DR PIR; A61126; A61126.
DR PIR; B46030; B46030.
DR PIR; B60066; RHAQ2.
DR InterPro; IPR002012; GnRH.
DR Pfam; PF00446; GnRH; 1.
DR PROSITE; PS00473; GnRH; 1.
KW Hormone; Amidation; Hypothalamus; Pyrrolidone carboxylic acid.
FT MOD_RES 10 10 AMIDATION.
FT SEQUENCE 10 AA; 1254 MW; 284B2E437871F5A3 CRC64;
SQ
Query Match 2.4%; Score 26; DB 1; Length 10;
Best Local Similarity 42.9%; Pred. No. 1e+04;
Matches 3; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 123 KHYGPGW 129
Db 1 QHWSHGW 7
RESULT 19
GON3_ONCKE
ID_GON3_ONCKE STANDARD; PRT; 10 AA.

AC P20367; P81751;
DT 01-FEB-1991 (Rel. 17, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Gonadoliberin III (Gonadotropin-releasing hormone III) (GnRH-III) (LH-
DE RH III) (Luliberin III).
GN GNRH3.
OS Onchorhynchus keta (Chum salmon), and
OS Clupea pallasii (Pacific herring).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;
OC Protacanthopterygii; Salmoniformes; Salmonidae; Onchorhynchus.
OX NCBI_TaxID=8018, 30724;
RN [1]
RP SEQUENCE.
RC SPECIES=O.keta;
RX MEDLINE=83195140; PubMed=6341999;
RA Sherwood N., Eiden L., Brownstein M., Spiess J., Rivier J., Vale W.;
RT "Characterization of a teleost gonadotropin-releasing hormone.";
RL Proc. Natl. Acad. Sci. U.S.A. 80:2794-2798(1983).
RN [2]
RP SEQUENCE, AND FUNCTION.
RC SPECIES=C.pallasii; TISSUE=Brain, and Pituitary;
RX MEDLINE=20114351; PubMed=10650929;
RA Carolsfeld J., Powell J.F.F., Park M., Fischer W.H., Craig A.G.,
RA Chang J.P., Rivier J.E., Sherwood N.M.;
RT "Primary structure and function of three gonadotropin-releasing
RT hormones, including a novel form, from an ancient teleost, herring.";
RL Endocrinology 141:505-512(2000).
CC -!- FUNCTION: Stimulates the secretion of gonadotropins; it stimulates
CC the secretion of both luteinizing and follicle-stimulating
CC hormones.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the GnRH family.
DR PIR; A21114; A21114.
DR InterPro; IPR002012; GnRH.
DR Pfam; PF00446; GnRH; 1.
DR PROSITE; PS00473; GnRH; 1.
KW Hormone; Amidation; Hypothalamus; Pyrrolidone carboxylic acid.
FT MOD_RES 10 10 AMIDATION.
FT SEQUENCE 10 AA; 1230 MW; 284B3233786B45A3 CRC64;
SQ
Query Match 2.4%; Score 26; DB 1; Length 10;
Best Local Similarity 37.5%; Pred. No. 1e+04;
Matches 3; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
QY 123 KHYGPGW 130
Db 1 QHWSYGL 8
RESULT 20
FIF1_SARBU
ID_FIF1_SARBU STANDARD; PRT; 12 AA.
AC P83349;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Neb-FIRFamide 1.
OS Sarcophaga bullata (Grey flesh fly) (Neobellieria bullata).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
OC Sarcophagidae; Sarcophaga.
OX NCBI_TaxID=7385;
RN [1]
RP SEQUENCE, AMIDATION, AND FUNCTION.
RC TISSUE=CNS;
RX MEDLINE=22342733; PubMed=12438685;
RA Meeusen T., Mertens I., Clynen E., Baggerman G., Nichols R.,
RA Nachman R.J., Huybrechts R., De Loof A., Schoofs L.;
RT "Identification in Drosophila melanogaster of the invertebrate G
RT protein-coupled FMRFamide receptor.";

RL Proc. Natl. Acad. Sci. U.S.A. 99:15363-15368(2002).
CC -!- FUNCTION: Has modulatory actions at skeletal neuromuscular
CC junctions.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)
CC family.
KW Neuropeptide; Amidation.
FT MOD_RES 12 12 AMIDATION.
SQ SEQUENCE 12 AA; 1389 MW; 2DC45519C14AB5A7.CRC64;

Query Match 2.4%; Score 26; DB 1; Length 12;
Best Local Similarity 50.0%; Pred. No. 1.2e+04;
Matches 4; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 62 PKTVDNFV 69
Db 3 PQPSDNFI 10

RESULT 21
TEMA_RANTE STANDARD; PRT; 13 AA.
AC P56917;
DT 30-MAY-2000 (Rel. 39, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Temporin A.
OS Rana temporaria (European common frog).
CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Ranidae; Rana.
OX NCBI_TaxID=8407;
RN [1]
RP SEQUENCE, AND SYNTHESIS.
RC TISSUE=Skin secretion;
RX MEDLINE=97175050; PubMed=9022710;
RA Simmaco M., Mignogna G., Canofeni S., Miele R., Mangoni M.L.,
RA Barra D.;
RT "Temporins, antimicrobial peptides from the European red frog Rana
temporaria.";
RL Eur. J. Biochem. 242:788-792(1996).
CC -!- FUNCTION: Has antibacterial activity against Gram-positive
CC bacteria.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Skin.
CC -!- SIMILARITY: Belongs to the brevinin family.
KW Amphibian defense peptide; Antibiotic; Amidation.
FT MOD_RES 13 13 AMIDATION.
SQ SEQUENCE 13 AA; 1398 MW; 2653612B9DECD408.CRC64;

Query Match 2.4%; Score 26; DB 1; Length 13;
Best Local Similarity 50.0%; Pred. No. 1.4e+04;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 49 VGRVIFGL 56
Db 5 IGRVLSGI 12

RESULT 22
CRBL_VESOR STANDARD; PRT; 14 AA.
AC P17236;
DT 01-AUG-1990 (Rel. 15, Created)
DT 01-AUG-1990 (Rel. 15, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Histamine releasing peptide II (HR-II).
OS Vespa orientalis (Oriental hornet).
CC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
CC Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Vespoidea;
CC Vespidae; Vespinae; Vespa.
OX NCBI_TaxID=7447;
RN [1]
RP SEQUENCE.

RC TISSUE=Venom;
RA Miroschnikov A.I., Snezhkova L.G., Nazimov I.V., Reshetova O.I.,
RA Roznov B.V., Gushchin I.S.;
RT "Structure and properties of histamine releasing peptides from the
RT venom of Vespa orientalis hornet.";
RL Bioorg. Khim. 7:1467-1477(1981).
CC -!- FUNCTION: Mast cell degranulating peptide. Induces the chemotaxis
CC of neutrophils.
DR PIR; JN0390; JN0390.
KW Mast cell degranulation; Chemotaxis; Amidation.
FT MOD_RES 14 14 AMIDATION.
SQ SEQUENCE 14 AA; 1524 MW; 22015B4A6CEDFD38.CRC64;

Query Match 2.4%; Score 26; DB 1; Length 14;
Best Local Similarity 30.0%; Pred. No. 1.5e+04;
Matches 3; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 159 VVFGKVLGEM 168
Db 4 LILGKLVKGL 13

RESULT 23
FIBB_MANLE STANDARD; PRT; 14 AA.
AC P14474;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Fibrinogen beta chain [Contains: Fibrinopeptide B] (Fragment).
GN FGB.
OS Mandrillus leucophaeus (Drill) (Papio leucophaeus).
CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC Mammalia; Euthera; Primates; Catarrhini; Cercopithecidae;
CC Cercopithecinae; Mandrillus.
OX NCBI_TaxID=9568;
RN [1]
RP SEQUENCE.
RX MEDLINE=69115139; PubMed=4974768;
RA Doolittle R.F., Glasgow C., Moss G.A.;
RT "Characterization of fibrinopeptides A and B from a drill (Mandrillus
leucophaeus).";
RL Biochim. Biophys. Acta 175:217-219(1969).
CC -!- FUNCTION: Fibrinogen has a double function: yielding monomers that
CC polymerize into fibrin and acting as a cofactor in platelet
CC aggregation.
CC -!- SUBUNIT: HEXAMER CONTAINING 2 SETS OF 3 NONIDENTICAL CHAINS
CC (ALPHA, BETA AND GAMMA), LINKED TO EACH OTHER BY DISULFIDE BONDS.
CC -!- PTM: Conversion of fibrinogen to fibrin is triggered by thrombin,
CC which cleaves fibrinopeptides A and B from alpha and beta chains,
CC and thus exposes the N-terminal polymerization sites responsible
CC for the formation of the soft clot.
DR InterPro; IPR002181; Fibrinogen C.
DR PROSITE; PS00514; FIBRIN_AG_C_DOMAIN; PARTIAL.
KW Blood coagulation; Plasma; Pyrrolidone carboxylic acid.
FT PEPTIDE 1 14 FIBRINOPEPTIDE B.
FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT NON_TER 14 14
SQ SEQUENCE 14 AA; 1434 MW; 6695B0F11EF72E1B.CRC64;

Query Match 2.4%; Score 26; DB 1; Length 14;
Best Local Similarity 42.9%; Pred. No. 1.5e+04;
Matches 6; Conservative 2; Mismatches 0; Indels 6; Gaps 1;

QY 45 GDEDVGRVIFGLFG 58
Db 5 GBEE-----GLFG 12

RESULT 24
AKH_MELML STANDARD; PRT; 8 AA.
ID AKH MELML
AC P25423;

DT 01-MAY-1992 (Rel. 22, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Adipokinetic hormone (AKH).
OS Melolontha melolontha (Cockchafer),
OS Geotrupes stercorosus (Dor beetle), and
OS Pachnoda marginata (Flower beetle).
OC Eukaryota; Metazoa; Arthropoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Coleoptera; Polyphaga; Scarabaeiformia;
OC Scarabaeidae; Melolonthinae; Melolontha.
OX NCBI_TaxID=7061, 7087, 7058;
RN [1]
RP SEQUENCE.
RC SPECIES=M.melolontha, and G.stercorosus; TISSUE=Corpora cardiaca;
RX MEDLINE=91248100; PubMed=2039445;
RA Gaede G.;
RT "A unique charged tyrosine-containing member of the adipokinetic
RT hormone/red-pigment-concentrating hormone peptide family isolated and
RT sequenced from two beetle species.";
RL Biochem. J. 275:671-677(1991).
RN [2]
RP SEQUENCE.
RC SPECIES=P.marginata; TISSUE=Corpora cardiaca;
RX MEDLINE=92265187; PubMed=1586453;
RA Gaede G., Lopata A., Kellner R., Rinehart K.L. Jr.;
RT "Primary structures of neuropeptides isolated from the corpora
RT cardiaca of various cetonid beetle species determined by
RT pulsed-liquid phase sequencing and tandem fast atom bombardment mass
RT spectrometry.";
RL Biol. Chem. Hoppe-Seyler 373:133-142(1992).
CC -!- FUNCTION: This hormone, released from cells in the corpora
CC cardiaca after the beginning of flight, causes release of
CC diglycerides from the fat body and then stimulates the flight
CC muscles to use these diglycerides as an energy source.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the AKH / HRTH / RPCH family.
DR PIR; A58641; A58641.
DR PIR; S15422; S15422.
DR PIR; S21663; S21663.
DR InterPro; IPR002047; AKH.
DR PROSITE; PS00256; AKH; 1.
KW Neuropeptide; Amidation; Flight; Pyrrolidone carboxylic acid.
FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD_RES 8 8 AMIDATION.
SQ SEQUENCE 8 AA; 1022 MW; 867AB775AB544736 CRC64;

Query Match 2.3%; Score 25; DB 1; Length 8;
Best Local Similarity 50.0%; Pred. No. 1.4e+05;
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 124 HYGPWG 129
Db :|||
3 NYS PDW 8

RESULT 25
AKH_TABAT
ID_AKH_TABAT STANDARD; PRT; 8 AA.
AC P14595;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Adipokinetic hormone (AKH) (Dipteran corpora cardiaca factor I)
(DCC I).
OS Tabanus atratus (Horse fly).
OC Eukaryota; Metazoa; Arthropoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Tabanomorpha; Tabanidae;
OC Tabanus.
OX NCBI_TaxID=7207;
RN [1]
RP SEQUENCE.
RC TISSUE=Corpora cardiaca;
RX MEDLINE=90046758; PubMed=2813385;
RA Jaffe H., Raina A.K., Riley C.T., Fraser B.A., Nachman R.J.,
RA Vogel V.W., Zhang Y.-S., Hayes D.K.;
RT "Primary structure of two neuropeptide hormones with adipokinetic and
RT hypotrehalosemic activity isolated from the corpora cardiaca of horse
RT flies (Diptera).";
RL Proc. Natl. Acad. Sci. U.S.A. 86:8161-8164(1989).
CC -!- FUNCTION: Hypertrehalosemic factors are neuropeptides that
CC elevate the level of trehalose in the hemolymph (trehalose is the
CC major carbohydrate in the hemolymph of insects).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the AKH / HRTH / RPCH family.
DR PIR; B33995; B33995.
DR InterPro; IPR002047; AKH.
DR PROSITE; PS00256; AKH; 1.
KW Neuropeptide; Amidation; Flight; Pyrrolidone carboxylic acid.
FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD_RES 10 10 AMIDATION.
SQ SEQUENCE 10 AA; 1169 MW; 916036786771A9D1 CRC64;

Query Match 2.3%; Score 25; DB 1; Length 10;
Best Local Similarity 60.0%; Pred. No. 1.3e+04;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 125 YGPGW 129
Db :|||
4 FTPGW 8

RA Jaffe H., Raina A.K., Riley C.T., Fraser B.A., Nachman R.J.,
RA Vogel V.W., Zhang Y.-S., Hayes D.K.;
RT "Primary structure of two neuropeptide hormones with adipokinetic and
RT hypotrehalosemic activity isolated from the corpora cardiaca of horse
RT flies (Diptera).";
RL Proc. Natl. Acad. Sci. U.S.A. 86:8161-8164(1989).
CC -!- FUNCTION: This hormone, released from cells in the corpora
CC cardiaca after the beginning of flight, causes release of
CC diglycerides from the fat body and then stimulates the flight
CC muscles to use these diglycerides as an energy source.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the AKH / HRTH / RPCH family.
DR PIR; A33995; A33995.
DR InterPro; IPR002047; AKH.
DR PROSITE; PS00256; AKH; 1.
KW Neuropeptide; Amidation; Flight; Pyrrolidone carboxylic acid.
FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD_RES 8 8 AMIDATION.
SQ SEQUENCE 8 AA; 949 MW; 86786771A9D1A736 CRC64;

Query Match 2.3%; Score 25; DB 1; Length 8;
Best Local Similarity 60.0%; Pred. No. 1.4e+05;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 125 YGPGW 129
Db :|||
4 FTPGW 8

RESULT 26
HTF_TABAT
ID-HTF_TABAT STANDARD; PRT; 10 AA.
AC P14596;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Hypertrehalosemic factor (HOTH) (Dipteran corpora cardiaca factor II)
(DCC II).
OS Tabanus atratus (Horse fly).
OC Eukaryota; Metazoa; Arthropoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Tabanomorpha; Tabanidae;
OC Tabanus.
OX NCBI_TaxID=7207;
RN [1]
RP SEQUENCE.
RC TISSUE=Corpora cardiaca;
RX MEDLINE=90046758; PubMed=2813385;
RA Jaffe H., Raina A.K., Riley C.T., Fraser B.A., Nachman R.J.,
RA Vogel V.W., Zhang Y.-S., Hayes D.K.;
RT "Primary structure of two neuropeptide hormones with adipokinetic and
RT hypotrehalosemic activity isolated from the corpora cardiaca of horse
RT flies (Diptera).";
RL Proc. Natl. Acad. Sci. U.S.A. 86:8161-8164(1989).
CC -!- FUNCTION: Hypertrehalosemic factors are neuropeptides that
CC elevate the level of trehalose in the hemolymph (trehalose is the
CC major carbohydrate in the hemolymph of insects).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the AKH / HRTH / RPCH family.
DR PIR; B33995; B33995.
DR InterPro; IPR002047; AKH.
DR PROSITE; PS00256; AKH; 1.
KW Neuropeptide; Amidation; Flight; Pyrrolidone carboxylic acid.
FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD_RES 10 10 AMIDATION.
SQ SEQUENCE 10 AA; 1169 MW; 916036786771A9D1 CRC64;

Query Match 2.3%; Score 25; DB 1; Length 10;
Best Local Similarity 60.0%; Pred. No. 1.3e+04;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 125 YGPGW 129
Db :|||
4 FTPGW 8

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RESULT 27
SLAP_BACTG
ID SLAP_BACTG STANDARD; PRT; 10 AA.
AC P49325;
DT 01-FEB-1996 (Rel. 33, Created)
DT 01-FEB-1996 (Rel. 33, Last sequence update)
DT 01-FEB-1996 (Rel. 33, Last annotation update)
DE S-layer protein (Surface layer protein) (Fragment).
OS Bacillus thuringiensis (subsp. galleriae).
OC Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
OX NCBI_TaxID=29338;
RN [1]
RP SEQUENCE.
RC STRAIN=NRRL 4045;
RX MEDLINE=90078111; PubMed=2592346;
RA Lukevich M.D., Beveridge T.J.;
RT "Characterization of a dynamic S layer on Bacillus thuringiensis.";
RL J. Bacteriol. 171:6656-6667(1989).
CC -!- FUNCTION: The S-layer is a paracrystalline mono-layered assembly
CC of proteins which coat the surface of bacteria.
CC -!- SUBCELLULAR LOCATION: CELL WALL. THIS BACTERIUM IS COVERED BY A
CC S-LAYER WITH OBLIQUE (P2) SYMMETRY.
DR PIR; A60476; A60476.
KW Cell wall; S-layer.
FT NON_TER 10
SQ SEQUENCE 10 AA; 1080 MW; 57AECACAB769DIA3 CRC64;

Query Match 2.3%; Score 25; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. No. 1.3e+04;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 112 GERFPD 117
|:|:|
Db 2 GKTFPD 7

RESULT 28
RS30_ONCMY
ID RS30_ONCMY STANDARD; PRT; 11 AA.
AC P83328;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE 40S ribosomal protein S30 (Fragment).
GN FAU.
OS Oncorhynchus mykiss (Rainbow trout) (Salmo gairdneri).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;
OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
OX NCBI_TaxID=8022;
RN [1]
RP SEQUENCE, FUNCTION, AND MASS SPECTROMETRY.
RC TISSUE=Skin mucus;
RX MEDLINE=22142142; PubMed=12147245;
RA Fernandes J.M.O., Smith V.J.;
RT "A novel antimicrobial function for a ribosomal peptide from rainbow
RT trout skin.";
RL Biochem. Biophys. Res. Commun. 296:167-171(2002).
CC -!- FUNCTION: Has antibacterial activity against Gram-positive
CC bacteria.
CC -!- MASS SPECTROMETRY: MW=6676.6; METHOD=MALDI.
CC -!- SIMILARITY: Belongs to the S30E family of ribosomal proteins.
KW Ribosomal protein; Antibiotic.
FT NON_TER 11
SQ SEQUENCE 11 AA; 1123 MW; 2312AB630DD735B8 CRC64;

Query Match 2.3%; Score 25; DB 1; Length 11;
Best Local Similarity 71.4%; Pred. No. 1.4e+04;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 131 SMANAGK 137
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Db 5 SLRAGK 11

|:|:|
|:|:|

RESULT 29
HS9A_RAT
ID HS9A_RAT STANDARD; PRT; 12 AA.
AC P82995;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Heat shock protein HSP 90-alpha (Fragment).
GN HSPCA.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE.
RC STRAIN=Sprague-Dawley; TISSUE=Liver;
RX MEDLINE=21589773; PubMed=11732320;
RA Langer T., Fasold H.;
RT "Isolation and quantification of the heat shock protein 90 alpha and
RT beta isoforms from rat liver.";
RL Protoplasma 218:54-56(2001).
CC -!- FUNCTION: Molecular chaperone. Has ATPase activity (By
CC similarity).
CC -!- SUBUNIT: Homodimer (By similarity).
CC -!- SUBCELLULAR LOCATION: Cytoplasmic.
CC -!- SIMILARITY: Belongs to the heat shock protein 90 family.
DR InterPro; IPR001404; Hsp90.
DR PROSITE; PS00298; HSP90; PARTIAL.
KW Chaperone; ATP-binding; Heat shock; Phosphorylation.
FT MOD_RES 4 4
FT MOD_RES 6 6
FT MOD_RES 12 12
FT NON_TER 12
SQ SEQUENCE 12 AA; 1432 MW; DE47C322CAB6C1B6 CRC64;

Query Match 2.3%; Score 25; DB 1; Length 12;
Best Local Similarity 30.0%; Pred. No. 1.5e+04;
Matches 3; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 178 KTDSRDKPLK 187
|:|:|:|
|:|:|:|
Db 3 ETQTQDQPM 12

RESULT 30
TA13_TREME
ID TA13_TREME STANDARD; PRT; 13 AA.
AC P01370;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Tremorogen A-13.
OS Tremella mesenterica (Jelly fungus).
OC Eukaryota; Fungi; Basidiomycota; Hymenomycetes; Heterobasidiomycetes;
OC Tremellomycetidae; Tremellales; Tremellaceae; Tremella.
OX NCBI_TaxID=5217;
RN [1]
RP SEQUENCE.
RA Sakagami Y., Yoshida M., Isogai A., Suzuki A.;
RT "Peptide sex hormones inducing conjugation tube formation in
RT compatible mating-type cells of Tremella mesenterica.";
RL Science 212:1525-1527(1981).
CC -!- FUNCTION: Tremorogen A-13 is produced by the a mating-type cells
CC and induces formation of conjugation tubes in a mating-type cells.
CC PIR; A01641; JTJG3.
KW Lipoprotein; Prenylation; Pheromone.
FT LIPID 13 13
SQ SEQUENCE 13 AA; 1204 MW; 680304A9697BA864 CRC64;
```


Query Match 2.3%; Score 24.5; DB 1; Length 13;
Best Local Similarity 50.0%; Pred. No. 1.8e+04;
Matches 6; Conservative 2; Mismatches 3; Indels 1; Gaps 1;

QY 95 QGGDFTRGDGTG 106
:|:|:|:|:|:|:
Db 1 EGGG-NRGDPG 11

RESULT 31

BRK_ONCMY ID BRK_ONCMY STANDARD; PRT; 10 AA.
AC Q9PRZ1;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Lysyl-bradykinin-like.
OS Oncorhynchus mykiss (Rainbow trout) (Salmo gairdneri).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;
OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
OX NCBI_TaxID=8022;
RN [1]
RP SEQUENCE.
RX MEDLINE=94039817; PubMed=8224232;
RA Conlon J.M., Olson K.R.;
RT "Purification of a vasoactive peptide related to lysyl-bradykinin from trout plasma."
RL FEBS Lett. 334:75-78(1993).
CC -!- FUNCTION: SMOOTH MUSCLE CONTRACTION. PROBABLY PLAYS A ROLE FOR THIS SYSTEM IN CARDIOVASCULAR REGULATION IN FISH.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Plasma.
CC -!- SIMILARITY: Belongs to the bradykinin family.
DR PIR; S39030; S39030.
KW Bradykinin; Vasodilator.
SQ SEQUENCE 10 AA; 1193 MW; 33C59075A3786777 CRC64;

Query Match 2.2%; Score 24; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.5e+04;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 127 PGW 129
:|:|:
Db 4 PGW 6

RESULT 32

CAER_LITXA ID CAER_LITXA STANDARD; PRT; 10 AA.
AC P56264;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Caerulein.
OS Litoria xanthomera (Orange-thighed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Hylidae; Hylinae;
OC Pelodyadinae; Litoria.
OX NCBI_TaxID=79697;
RN [1]
RP SEQUENCE, AND MASS SPECTROMETRY.
RC TISSUE=Skin secretion;
RX MEDLINE=97374000; PubMed=9230483;
RA Steinborner S.T., Waugh R.J., Bowie J.H., Wallace J.C., Tyler M.J., Ramsay S.L.;
RA "New caerin antibacterial peptides from the skin glands of the Australian tree frog Litoria xantheromera."
RT J. Pept. Sci. 3:181-185(1997).
CC -!- FUNCTION: Hypotensive neuropeptide.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Skin dorsal glands.

CC -!- MASS SPECTROMETRY: MW=1354; METHOD=FAB.
CC -!- SIMILARITY: Belongs to the gastrin/cholecystokinin family.
DR InterPro; IPR001651; Gastrin.
DR PROSITE; PS00259; GASTRIN; 1.
KW Amphibian defense peptide; Hypotensive agent; Amidation; Sulfation;
KW Pyrrolidone carboxylic acid.
FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD_RES 4 4 SULFATION.
FT MOD_RES 10 10 AMIDATION.
SQ SEQUENCE 10 AA; 1290 MW; 99DBF3837861BB5A CRC64;

Query Match 2.2%; Score 24; DB 1; Length 10;
Best Local Similarity 60.0%; Pred. No. 1.5e+04;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 151 TAWLD 155
:|:|:
Db 5 TGMWD 9

RESULT 33

TKS1_AEDAE ID TKS1_AEDAE STANDARD; PRT; 10 AA.
AC P42634;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Sialokinin I.
OS Aedes aegypti (Yellowfever mosquito).
OC Eukaryota; Metazoa; Arthropoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Aedes.
OX NCBI_TaxID=7159;
RN [1]
RP SEQUENCE.
RC STRAIN=Rockefeller; TISSUE=Salivary gland;
RX MEDLINE=94105119; PubMed=8278354;
RA Champagne D.E., Ribeiro J.M.C.;
RT "Sialokinin I and II: vasodilatory tachykinins from the yellow fever mosquito Aedes aegypti."
RL Proc. Natl. Acad. Sci. U.S.A. 91:138-142(1994).
CC -!- FUNCTION: Vasodilatory peptide. May activate macrophages at the site of feeding.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the tachykinin family.
DR PIR; A49581; A49581.
DR InterPro; IPR002040; Tachy_Neurokinin.
DR PROSITE; PS00267; TACHYKININ; 1.
KW Tachykinin; Neuropeptide; Amidation.
FT MOD_RES 10 10 AMIDATION.
SQ SEQUENCE 10 AA; 1145 MW; 3DCFDE6B59C33AA8 CRC64;

Query Match 2.2%; Score 24; DB 1; Length 10;
Best Local Similarity 57.1%; Pred. No. 1.5e+04;
Matches 4; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 73 TGEKGFG 79
:|:|:|:
Db 2 TGDKFYG 8

RESULT 34

TKS2_AEDAE ID TKS2_AEDAE STANDARD; PRT; 10 AA.
AC P42635;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Sialokinin II.
OS Aedes aegypti (Yellowfever mosquito).
OC Eukaryota; Metazoa; Arthropoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Aedes.
OX NCBI_TaxID=7159;
RN [1]

RP SEQUENCE.
RC STRAIN=Rockefeller; TISSUE=Salivary gland;
RX MEDLINE=94105119; PubMed=8278354;
RA Champagne D.E., Ribeiro J.M.C.;
RT "Sialokinin I and II: vasodilatory tachykinins from the yellow fever mosquito Aedes aegypti.";
RL Proc. Natl. Acad. Sci. U.S.A. 91:138-142(1994).
CC -!- FUNCTION: Vasodilatory peptide. May activate macrophages at the site of feeding.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the tachykinin family.
DR PIR; B49581; B49581.
DR InterPro; IPR002040; Tachy_Neurokinin.
DR PROSITE; PS00267; TACHYKININ; 1.
KW Tachykinin; Neuropeptide; Amidation.
FT MOD_RES 10 10
SQ SEQUENCE 10 AA; 1146 MW; 3DC77C6B59C33AA8 CRC64;

Query Match 2.2%; Score 24; DB 1; Length 10;
Best Local Similarity 57.1%; Pred. No. 1.5e+04;
Matches 4; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 73 TGEKGFG 79
Db ||:|:|
2 TGDKFYG 8

RESULT 35
HPB9_RANES STANDARD; PRT; 13 AA.
AC P32416;
DT 01-OCT-1993 (Rel. 27, Created)
DT 01-OCT-1993 (Rel. 27, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Hemolytic protein B9 (Fragment).
OS Rana esculenta (Edible frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
OX NCBI_TaxID=8401;
RN [1]
RP SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=90198965; PubMed=2317508;
RA Simmaco M., de Biase D., Severini C., Aita M., Erspamer G.F.,
RA Barra D., Bossa F.;
RT "Purification and characterization of bioactive peptides from skin extracts of Rana esculenta.";
RL Biochim. Biophys. Acta 1033:318-323(1990).
CC -!- FUNCTION: Shows hemolytic activity.
CC -!- SUBCELLULAR LOCATION: Secreted.
DR PIR; S09019; S09019.
KW Amphibian defense peptide; Amidation; Hemolysis.
FT MOD_RES 13 13
FT NON_TER 13 13
SQ SEQUENCE 13 AA; 1402 MW; C6B41A765DF9287D CRC64;

Query Match 2.2%; Score 24; DB 1; Length 13;
Best Local Similarity 62.5%; Pred. No. 2e+04;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 52 VIFGLFGK 59
Db :|||:
4 LIAGLLGK 11

RESULT 36
RF1_CONSP STANDARD; PRT; 12 AA.
AC P58805;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)

DE Conorfamide-Srl.
OS Conus spurius (Alphabet cone).
OC Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;
OC Apogastropoda; Caenogastropoda; Sorbeoconcha; Hypsogastropoda;
OC Neogastropoda; Conoidea; Conidae; Conus.
OX NCBI_TaxID=192919;
RN [1]
RP SEQUENCE, SYNTHESIS, AND MASS SPECTROMETRY.
RC TISSUE=Venom;
RX MEDLINE=21605839; PubMed=11738233;
RA Maillo M., Aguilar M.B., Lopez-Vera E., Craig A.G., Bulaj G.,
RA Olivera B.M., Heimer de la Coteria E.P.;
RT "Conorfamide, a Conus venom peptide belonging to the RFamide family of neuropeptides.";
RL Toxicon 40:401-407(2002).
CC -!- FUNCTION: Causes hyperactivity in mice.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Expressed by the venom duct.
CC -!- MASS SPECTROMETRY: MW=1454.8; METHOD=Electrospray.
CC -!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide) family.
KW Neurotoxin; Toxin; Amidation.
FT MOD_RES 12 12
SQ SEQUENCE 12 AA; 1456 MW; 2510671E49D772D3 CRC64;

Query Match 2.2%; Score 23.5; DB 1; Length 12;
Best Local Similarity 83.3%; Pred. No. 2e+04;
Matches 5; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 126 GP-GWV 130
Db |||:
1 GPMGWV 6

RESULT 37
UN46_CLOPA STANDARD; PRT; 14 AA.
ID UN46_CLOPA
AC P81362;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 15-JUL-1998 (Rel. 36, Last annotation update)
DE Unknown protein CP 46 from 2D-page (Fragment).
OS Clostridium pasteurianum.
OC Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;
OC Clostridium.
OX NCBI_TaxID=1501;
RN [1]
RP SEQUENCE.
RC STRAIN=W5;
RX MEDLINE=98291870; PubMed=9629918;
RA Flengsrud R., Skjeldal L.;
RT "Two-dimensional gel electrophoresis separation and N-terminal sequence analysis of proteins from Clostridium pasteurianum W5.";
RL Electrophoresis 19:802-806(1998).
CC -!- MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PI OF THIS UNKNOWN PROTEIN IS: 5.4, ITS MW IS: 38.2 kDa.
FT NON_TER 14 14
SQ SEQUENCE 14 AA; 1550 MW; 198078F4C0367170 CRC64;

Query Match 2.2%; Score 23.5; DB 1; Length 14;
Best Local Similarity 38.5%; Pred. No. 2.4e+04;
Matches 5; Conservative 5; Mismatches 2; Indels 1; Gaps 1;

QY 38 VYFDLRIGDEVG 50
Db ::|||:
2 IFNDL-IGNNIG 13

RESULT 38
LMT2_LOCMI STANDARD; PRT; 8 AA.
ID LMT2_LOCMI
AC P22396;
DT 01-AUG-1991 (Rel. 19, Created)

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DT 01-AUG-1991 (Rel. 19, Last sequence update)
DT 01-AUG-1991 (Rel. 19, Last annotation update)
DE Locustamyotropin 2 (LOW-MT-2).
OS Locusta migratoria (Migratory locust).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Orthopteroidea; Orthoptera; Caelifera; Acridomorpha;
OC Acridoidea; Acrididae; Oedipodinae; Locusta.
OX NCBI_TaxID=7004;
RN [1]
RP SEQUENCE.
RC TISSUE=Corpora cardiaca;
RA Schoofs L., Holman G.M., Hayes T.K., Nachman R.J., de Loof A.;
RT "Isolation, identification and synthesis of locustamyotropin II, an
RT additional neuropeptide of Locusta migratoria. Member of the
RT cephalomyotropic peptide family.";
RL Insect Biochem. 20:479-484(1990).
CC -!- FUNCTION: Mediates visceral muscle contractile activity (myotropic
CC activity).
CC -!- SIMILARITY: Belongs to the pyrokinin family.
CC InterPro; IPR001484; Pyrokinin.
DR PROSITE; PS00539; PYROKININ; 1.
KW Neuropeptide; Amidation; Pyrokinin.
FT MOD RES 8 8 AMIDATION.
SQ SEQUENCE 8 AA; 934 MW; 26341771A9CAA87B CRC64;

Query Match 2.1%; Score 23; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 97 GDFT 100
Db |||||
2 GDFT 5

RESULT 39
COXO_RAT
ID COXO_RAT STANDARD; PRT; 10 AA.
AC P80432;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Cytochrome c oxidase polypeptide VIIC, mitochondrial (EC 1.9.3.1)
DE (VIIIA) (Fragment).
DE COX7C OR COX7C1.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE.
RC STRAIN=Wistar; TISSUE=Heart, and Liver;
RX MEDLINE=95324529; PubMed=7601105;
RA Schagger H., Noack H., Halangk W., Brandt U., von Jagow G.;
RT "Cytochrome-c oxidase in developing rat heart. Enzymic properties and
RT amino-terminal sequences suggest identity of the fetal heart and the
RT adult liver isoform.";
RL Eur. J. Biochem. 230:235-241(1995).
CC -!- FUNCTION: This protein is one of the nuclear-coded polypeptide
CC chains of cytochrome c oxidase, the terminal oxidase in
CC mitochondrial electron transport.
CC -!- CATALYTIC ACTIVITY: 4 ferrocytochrome c + O(2) = 4 ferricytochrome
CC c + 2 H(2)O.
CC -!- SIMILARITY: Belongs to the cytochrome c oxidase VIIC family.
DR PIR; S65388; S65388.
KW Oxidoreductase; Mitochondrion.
FT NON TER 10 10
SQ SEQUENCE 10 AA; 1117 MW; 126DE767687B1B0B CRC64;

Query Match 2.1%; Score 23; DB 1; Length 10;
Best Local Similarity 71.4%; Pred. No. 1.9e+04;
Matches 5; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

QY 124 HY--GPG 128

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Db || |||
2 HYEGPG 8

RESULT 40
COXO_THUOB
ID COXO_THUOB STANDARD; PRT; 10 AA.
AC P80982;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Cytochrome c oxidase polypeptide VIIC (EC 1.9.3.1) (Fragment).
OS Thunnus obesus (Bigeye tuna).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Scombroidei;
OC Scombridae; Thunnus.
OX NCBI_TaxID=8241;
RN [1]
RP SEQUENCE.
RC TISSUE=Heart, and Liver;
RX MEDLINE=97454291; PubMed=9310366;
RA Arnold S., Lee I., Kim M., Song E., Linder D., Lottspeich F.,
RA Kadenbach B.;
RT "The subunit structure of cytochrome-c oxidase from tuna heart and
RT liver.";
RL Eur. J. Biochem. 248:99-103(1997).
CC -!- FUNCTION: This protein is one of the nuclear-coded polypeptide
CC chains of cytochrome c oxidase, the terminal oxidase in
CC mitochondrial electron transport.
CC -!- CATALYTIC ACTIVITY: 4 ferrocytochrome c + O(2) = 4 ferricytochrome
CC c + 2 H(2)O.
CC -!- SUBCELLULAR LOCATION: Mitochondrial inner membrane.
CC -!- SIMILARITY: Belongs to the cytochrome c oxidase VIIC family.
DR PIR; S77990; S77990.
KW Oxidoreductase; Inner membrane; Mitochondrion.
FT NON TER 10 10
SQ SEQUENCE 10 AA; 1059 MW; 126DE767687B1DCB CRC64;

Query Match 2.1%; Score 23; DB 1; Length 10;
Best Local Similarity 71.4%; Pred. No. 1.9e+04;
Matches 5; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

QY 124 HY--GPG 128
Db || |||
2 HYAEGPG 8

RESULT 41
URAA7_HUMAN
ID URA7_HUMAN STANDARD; PRT; 10 AA.
AC P34990;
DT 01-FEB-1994 (Rel. 28, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Unknown protein from 2D-page of red blood cells (Spot 2D-006HO)
DE (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Primates; Catarrhini; Hominiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE.
RC TISSUE=Erythrocyte;
RA Golaz O., Hughes G.J., Frutiger S., Paquet N., Bairoch A.,
RA Pasquali C., Sanchez J.-C., Tissot J.-D., Appel R.D., Walzer C.,
RA Balant L., Hochstrasser D.F.;
RL Submitted (FEB-1994) to Swiss-Prot.
CC -!- MISCELLANEOUS: On the 2D-gel the determined pI of this unknown
CC protein is: 4.77, its MW is: 26 kDa.
DR SWISS-2DPAGE; P34990; HUMAN.
FT NON TER 10 10
SQ SEQUENCE 10 AA; 1161 MW; F72D82E9C44B1871 CRC64;

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Query Match 2.1%; Score 23; DB 1; Length 10;
Best Local Similarity 57.1%; Pred. No. 1.9e+04;
Matches 4; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 111 YGERFPD 117
:|||||
Db 3 HGENFXD 9

RESULT 42
CORZ_PERAM STANDARD; PRT; 11 AA.
AC P11496;
DT 01-OCT-1989 (Rel. 12, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Corazonin.
OS Periplaneta americana (American cockroach).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blattodea;
OC Blattidae; Periplaneta.
OX NCBI_TaxID=6978;
RN [1]
RP SEQUENCE.
RC TISSUE=Corpora cardiaca;
RX MEDLINE=89325572; PubMed=2753132;
RA Veenstra J.A.;
RT "Isolation and structure of corazonin, a cardioactive peptide from
the American cockroach.";
RL FEBS Lett. 250:231-234(1989).
CC -!- FUNCTION: Cardioactive peptide. Corazonin is probably involved
in the physiological regulation of the heart beat.
CC -!- SUBCELLULAR LOCATION: Secreted.
DR PIR; S05002; S05002.
KW Neuropeptide; Amidation; Pyrrolidone carboxylic acid.
FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD_RES 11 11 AMIDATION.
SQ SEQUENCE 11 AA; 1387 MW; C7CFP32D6415AB46 CRC64;

Query Match 2.1%; Score 23; DB 1; Length 11;
Best Local Similarity 42.9%; Pred. No. 2e+04;
Matches 3; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 125 YGPGWVS 131
|:|:
Db 5 YSRGWTN 11

RESULT 43
TKN4_PSEGU STANDARD; PRT; 11 AA.
AC P42989;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Substance P-like peptide I (PG-SPI).
OS Pseudophryne guentheri (Guenther's toadlet).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Myobatrachidae;
OC Myobatrachinae; Pseudophryne.
OX NCBI_TaxID=30349;
RN [1]
RP SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=90287814; PubMed=2356157;
RA Simmaco M., Severini C., de Biase D., Barra D., Bossa F.,
RA Roberts J.D., Melchiorri P., Erspamer V.;
RT "Six novel tachykinin- and bombesin-related peptides from the skin of
the Australian frog Pseudophryne guentheri.";
RL Peptides 11:299-304(1990).
CC -!- FUNCTION: Tachykinins are active peptides which excite neurons,
evoke behavioral responses, are potent vasodilators and

CC secretagogues, and contract (directly or indirectly) many smooth
CC muscles.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Skin.
CC -!- SIMILARITY: Belongs to the tachykinin family.
DR PIR; E60409; E60409.
DR InterPro; IPR002040; Tachy Neurokinin.
DR InterPro; IPR008215; Tachykinin.
DR Pfam; PF02202; Tachykinin; 1.
DR SMART; SM00203; TK; 1.
DR PROSITE; PS00267; TACHYKININ; 1.
KW Amphibian defense peptide; Tachykinin; Neuropeptide; Amidation;
KW Pyrrolidone carboxylic acid.
FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD_RES 11 11 AMIDATION.
SQ SEQUENCE 11 AA; 1294 MW; 3A247C2CC9CB1AB7 CRC64;

Query Match 2.1%; Score 23; DB 1; Length 11;
Best Local Similarity 71.4%; Pred. No. 2e+04;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 116 PDENFKL 122
|||||
Db 4 PDEFFGL 10

RESULT 44
ADFB_TENMO STANDARD; PRT; 13 AA.
AC P83109;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Antidiuretic factor B (ADFB).
OS Tenebrio molitor (Yellow mealworm).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Coleoptera; Polyphaga; Cucujiformia;
OC Tenebrionidae; Tenebrio.
OX NCBI_TaxID=7067;
RN [1]
RP SEQUENCE, FUNCTION, TISSUE SPECIFICITY, MASS SPECTROMETRY, AND
RP SYNTHESIS.
RC TISSUE=Head;
RX MEDLINE=22465067; PubMed=12576082;
RA Eigenheer R.A., Wiehart U.M., Nicolson S.W., Schoofs L., Schegg K.M.,
RA Hull J.J., Schooley D.A.;
RT "Isolation, identification and localization of a second beetle
antidiuretic peptide.";
RL Peptides 24:27-34(2003).
CC -!- FUNCTION: Inhibitor of fluid secretion by Malpighian tubules. Uses
cGMP as second messenger. May function as an antidiuretic
hormone.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Brain. Appears to be mainly expressed in two
pairs of bilaterally symmetrical cells in the protocerebrum.
CC -!- MASS SPECTROMETRY: MW=1560.33; METHOD=MALDI.
KW Neuropeptide; Hormone.
SQ SEQUENCE 13 AA; 1562 MW; 0240A4504B8A632B CRC64;

Query Match 2.1%; Score 23; DB 1; Length 13;
Best Local Similarity 50.0%; Pred. No. 2.4e+04;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 103 DGTGKSIYG 112
|||:
Db 3 DGSYKPHIYG 12

RESULT 45
MAST_VESCR STANDARD; PRT; 14 AA.
ID MAST_VESCR
AC P01516;
DT 21-JUL-1986 (Rel. 01, Created)

DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Mastoparan C.
OS Vespa crabro (European hornet).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Vespoidea;
OC Vespidae; Vespinae; Vespa.
OX NCBI_TaxID=7445;
RN [1]
RP SEQUENCE.
RC TISSUE=Venom;
RX MEDLINE=84289390; PubMed=6206053;
RA Argiolas A., Pisano J.J.;
RT "Isolation and characterization of two new peptides, mastoparan C and
RT crabrolin, from the venom of the European hornet, Vespa crabro.";
RL J. Biol. Chem. 259:10106-10111(1984).
CC -!- FUNCTION: Mast cell degranulating peptide. Activates G proteins
CC that couple to phospholipase C.
DR PIR; A01779; QMVHP2.
KW Mast cell degranulation; Amidation.
FT MOD RES 14 14 AMIDATION.
SQ SEQUENCE 14 AA; 1508 MW; 550C0ECA1D6AB1D7 CRC64;

Query Match 2.1%; Score 23; DB 1; Length 14;
Best Local Similarity 62.5%; Pred. No. 2.6e+04;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MKVLLAAA 8
 :|||| |
Db 3 LKALLAVA 10

Search completed: August 30, 2004, 10:50:26
Job time : 36.8378 secs

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OM protein - protein search, using sw model

Run on: August 30, 2004, 10:41:54 ; Search time 62.5405 Seconds
(without alignments)
319.918 Million cell updates/sec

Title: US-09-720-469A-44
Perfect score: 1083
Sequence: 1 MKVLLAAALIAGSVFFLLP.....VLIADCGKIEVEKPPAIAKE 208

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283366 seqs, 96191526 residues

Total number of hits satisfying chosen parameters: 1638

Minimum DB seq length: 8
Maximum DB seq length: 14

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR 78: *
1: pir1: *
2: pir2: *
3: pir3: *
4: pir4: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	31	2.9	11	2 PT0218	T-cell receptor be
2	31	2.9	13	2 PH0796	T-cell receptor al
3	30	2.8	13	2 JQ1350	hypothetical prote
4	29	2.7	8	2 PT0279	Ig heavy chain CRD
5	29	2.7	8	2 PT0725	T-cell receptor be
6	29	2.7	8	2 PT0588	T-cell receptor be
7	29	2.7	12	2 G49410	t-complex polypept
8	28	2.6	8	2 A61348	red pigment-concen
9	28	2.6	10	2 A60421	hypertrehalosemic
10	28	2.6	10	2 S08997	hypertrehalosemic
11	28	2.6	10	2 S08998	hypertrehalosemic
12	28	2.6	10	2 A26381	hypertrehalosemic
13	28	2.6	11	2 S57575	hypertrehalosemic
14	28	2.6	12	2 PH1458	T cell receptor V-
15	28	2.6	13	2 S78766	T-cell receptor be
16	27.5	2.5	13	2 B56864	ribosomal protein
17	27	2.5	10	2 A46030	dipeptidyl-peptida
18	27	2.5	11	2 B60769	gonadoliberin I -
19	27	2.5	14	2 PA0096	Ig H2 chain - Paci
20	27	2.5	14	2 PH0801	pyruvate decarboxy
21	26.5	2.4	12	2 S07206	T-cell receptor al
22	26.5	2.4	13	2 A23695	kassinin - Senegal
23	26.5	2.4	14	2 S33802	myosin heavy chain
24	26.5	2.4	14	2 PH0747	chaperone, TCPI-re
25	26	2.4	8	2 S55310	T-cell receptor be
26	26	2.4	8	2 A58620	adipokinetic hormo
27	26	2.4	8	2 PT0554	adipokinetic hormo
28	26	2.4	9	2 PT0231	T-cell receptor be
29	26	2.4	10	1 RHAQ2	Ig heavy chain CDR
					gonadoliberin II -

30	26	2.4	10	1 A61126	gonadoliberin - sp
31	26	2.4	10	2 B46030	gonadoliberin II -
32	26	2.4	10	2 A21114	gonadoliberin - ch
33	26	2.4	11	2 C38887	T-cell receptor ga
34	26	2.4	12	2 S26544	T-cell receptor be
35	26	2.4	12	2 S65730	hemoglobin, extrac
36	26	2.4	13	2 C53275	Ig kappa-1 chain J
37	26	2.4	14	2 JN0390	histamine-releasin
38	26	2.4	14	2 PH0795	T-cell receptor al
39	25	2.3	8	2 S15422	adipokinetic hormo
40	25	2.3	8	2 A33995	adipokinetic hormo
41	25	2.3	8	2 A58641	adipokinetic hormo
42	25	2.3	8	2 S21663	neuropeptide - flo
43	25	2.3	8	2 PT0595	T-cell receptor be
44	25	2.3	10	2 B33995	hypotrehalosemic h
45	25	2.3	10	2 A60476	S-layer protein -

ALIGNMENTS

RESULT 1

PT0218
T-cell receptor beta chain V-J region (7-10-D.3) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 31-Dec-1991 #sequence_revision 31-Dec-1991 #text_change 30-May-1997
C;Accession: PT0218
R;Nakano, N.; Kikutani, H.; Nishimoto, H.; Kishimoto, T.
J. Exp. Med. 173, 1091-1097, 1991
A;Title: T cell receptor V gene usage of islet beta cell-reactive T cells is not restrict
A;Reference number: PT0209; MUID:91217621; PMID:1902501
A;Accession: PT0218
A;Molecule type: mRNA
A;Residues: 1-11 <NAK>
C;Keywords: T-cell receptor

Query Match 2.9%; Score 31; DB 2; Length 11;
Best Local Similarity 50.0%; Pred. No. 8e+03;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 102 GDGTGGKSIY 111

Db 2 GAGQGGNTLY 11

RESULT 2

PH0796
T-cell receptor alpha chain (F15) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PH0796
R;Casanova, J.L.; Romero, P.; Widmann, C.; Kourilsky, P.; Maryanski, J.L.
J. Exp. Med. 174, 1371-1383, 1991
A;Title: T cell receptor genes in a series of class I major histocompatibility complex-re
allelic exclusion and antigen-specific repertoire.
A;Reference number: PH0746; MUID:92078846; PMID:1836010
A;Accession: PH0796
A;Molecule type: mRNA
A;Residues: 1-13 <CAS>
A;Cross-references: EMBL:X60901
A;Experimental source: T lymphocyte
C;Keywords: T-cell receptor

Query Match 2.9%; Score 31; DB 2; Length 13;
Best Local Similarity 54.5%; Pred. No. 9.6e+03;
Matches 6; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 102 GDGTGGKSIYG 112

Db 3 GTGNTGKLIFG 13

RESULT 3

JQ1350
hypothetical protein, 1.3K (rps16 5' region) - Emericella nidulans
C;Species: Emericella nidulans, Aspergillus nidulans
C;Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 09-Sep-1997
C;Accession: JQ1350
R;Bradshaw, R.E.; Pillar, T.M.
Gene 108, 157-162, 1991
A;Title: Isolation and nucleotide sequence of the ribosomal protein S16-encoding gene fr
A;Reference number: JQ1349; MUID:92104500; PMID:1761226
A;Accession: JQ1350
A;Molecule type: DNA
A;Residues: 1-13 <BRA>
A;Cross-references: GB:M65259; NID:g168087; PID:g168089
A;Experimental source: strain R153

Query Match 2.8%; Score 30; DB 2; Length 13;
Best Local Similarity 60.0%; Pred. No. 1.2e+04;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 67 NFVALATGEK 76
||| |||:
Db 2 NMVCAATGKK 11

RESULT 4
PT0279
Ig heavy chain CRD3 region (clone 4-91A) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0279
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and j
A;Reference number: PT0222; MUID:91108337; PMID:1899102
A;Accession: PT0279
A;Molecule type: DNA
A;Residues: 1-8 <YAM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin

Query Match 2.7%; Score 29; DB 2; Length 8;
Best Local Similarity 83.3%; Pred. No. 2.8e+05;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 102 GDGTGG 107
||| ||
Db 3 GDGRGG 8

RESULT 5
PT0725
T-cell receptor beta chain V-D-J region (140-2I) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PT0725
R;Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A;Reference number: PT0509; MUID:91277601; PMID:1711558
A;Accession: PT0725
A;Status: translation not shown
A;Molecule type: DNA
A;Residues: 1-8 <FEE>
A;Experimental source: newborn thymus, strain BALB/c
C;Keywords: T-cell receptor

Query Match 2.7%; Score 29; DB 2; Length 8;
Best Local Similarity 83.3%; Pred. No. 2.8e+05;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 102 GDGTGG 107
||| ||
Db 3 GDGLGG 8

RESULT 6
PT0588
T-cell receptor beta chain V-D-J region (141-1CB) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PT0588
R;Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A;Reference number: PT0509; MUID:91277601; PMID:1711558
A;Accession: PT0588
A;Status: translation not shown
A;Molecule type: mRNA
A;Residues: 1-8 <FEE>
A;Experimental source: day 19 fetal thymus, strain BALB/c
C;Keywords: T-cell receptor

Query Match 2.7%; Score 29; DB 2; Length 8;
Best Local Similarity 83.3%; Pred. No. 2.8e+05;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 102 GDGTGG 107
||| ||
Db 3 GDATGG 8

RESULT 7
G49410
t-complex polypeptide 1 homolog (peak 6b fraction) - rabbit (fragment)
N;Alternate names: chaperonin homolog (peak 6b)
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 #text_change 04-Sep-1998
C;Accession: G49410
R;Rommelaere, H.; Van Troys, M.; Gao, Y.; Melki, R.; Cowan, N.J.; Vandekerckhove, J.; Am
Proc. Natl. Acad. Sci. U.S.A. 90, 11975-11979, 1993
A;Title: Eukaryotic cytosolic chaperonin contains t-complex polypeptide 1 and seven rela
A;Reference number: A49410; MUID:94089752; PMID:7903455
A;Accession: G49410
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-12 <ROM>
A;Experimental source: reticulocyte
C;Superfamily: molecular chaperone t-complex-type

Query Match 2.7%; Score 29; DB 2; Length 12;
Best Local Similarity 45.5%; Pred. No. 1.3e+04;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 130 VSMANAGKDTN 140
: :||| |||:
Db 1 ILIANTGMDTD 11

RESULT 8
A61348
red pigment-concentrating hormone - northern shrimp
N;Alternate names: blanching hormone
C;Species: Pandalus borealis (northern shrimp)
C;Date: 02-Aug-1994 #sequence_revision 05-Aug-1994 #text_change 07-May-1999
C;Accession: A61348; S07139
R;Fornlund, P.; Josefsson, L.
Science 177, 173-175, 1972
A;Title: Crustacean color-change hormone: amino acid sequence and chemical synthesis.
A;Reference number: A61348; MUID:72228738; PMID:5041353
A;Accession: A61348
A;Molecule type: protein
A;Residues: 1-8 <FER1>
R;Fornlund, P.
Biochim. Biophys. Acta 371, 304-311, 1974
A;Title: Structure of the red-pigment-concentrating hormone of the shrimp, Pandalus bore
A;Reference number: S07139; MUID:75054965; PMID:4433569

A;Accession: S07139
A;Molecule type: protein
A;Residues: 'E', 2-8 <FER2>
A;Note: the amino-terminal residue forms pyrrolidone carboxylic acid; therefore, we have
C;Comment: This neuropeptide, isolated from the eyestalks of the shrimp and active in pig-
zed pigment-containing cells.
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; blocked amino end; hormone; neuropeptide; pyroglutamic
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;8/Modified site: amidated carboxyl end (Trp) #status experimental

Query Match 2.6%; Score 28; DB 2; Length 8;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 124 HYGPGW 129
:: |||
Db 3 NFSPGW 8

RESULT 9

A60421
hypertrehalosemic hormone - German cockroach
N;Alternate names: Bld-HrTH
C;Species: Blattella germanica (German cockroach)
C;Date: 03-Feb-1993 #sequence_revision 03-Feb-1993 #text_change 31-Oct-1997
C;Accession: A60421; S09137
R;Veenstra, J.A.; Camps, F.
C;Neuropeptides 15, 107-109, 1990
A;Title: Structure of the hypertrehalosemic neuropeptide of the German cockroach, Blatte
A;Reference number: A60421; MUID:91179584; PMID:2080017
A;Accession: A60421
A;Molecule type: protein
A;Residues: 1-10 <VEE>
R;Gaede, G.; Rinehart, K.L.
Biol. Chem. Hoppe-Seyler 371, 345-354, 1990
A;Title: Primary structures of hypertrehalosemic neuropeptides isolated from the corpora
entalis and of the stick insect Extatosoma tiaratum assigned by tandem fast atom bombard
A;Reference number: S08995; MUID:90253659; PMID:2340112
A;Accession: S09137

A;Molecule type: protein
A;Residues: 1-10 <GAE>
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;10/Modified site: amidated carboxyl end (Thr) #status experimental

Query Match 2.6%; Score 28; DB 2; Length 10;
Best Local Similarity 50.0%; Pred. No. 1.3e+04;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 124 HYGPGW 129
:: |||
Db 3 NFSPGW 8

RESULT 10

S08997
hypertrehalosemic neuropeptide Bld-HrTH - cockroach (Gromphadorina portentosa)
C;Species: Gromphadorina portentosa
C;Date: 30-Jun-1992 #sequence_revision 14-Sep-1994 #text_change 24-Oct-1997
C;Accession: S08997
R;Gaede, G.; Rinehart, K.L.
Biol. Chem. Hoppe-Seyler 371, 345-354, 1990
A;Title: Primary structures of hypertrehalosemic neuropeptides isolated from the corpora
entalis and of the stick insect Extatosoma tiaratum assigned by tandem fast atom bombard
A;Reference number: S08995; MUID:90253659; PMID:2340112
A;Accession: S08997

A;Molecule type: protein
A;Residues: 1-10 <GAE>
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

F;10/Modified site: amidated carboxyl end (Thr) #status experimental
Query Match 2.6%; Score 28; DB 2; Length 10;
Best Local Similarity 50.0%; Pred. No. 1.3e+04;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 124 HYGPGW 129
:: |||
Db 3 NFSPGW 8

RESULT 11

S08998
hypertrehalosemic neuropeptide Bld-HrTH - Madeira cockroach
C;Species: Leucophaea maderae (Madeira cockroach)
C;Date: 30-Jun-1992 #sequence_revision 14-Sep-1994 #text_change 24-Oct-1997
C;Accession: S08998
R;Gaede, G.; Rinehart, K.L.
Biol. Chem. Hoppe-Seyler 371, 345-354, 1990
A;Title: Primary structures of hypertrehalosemic neuropeptides isolated from the corpora
entalis and of the stick insect Extatosoma tiaratum assigned by tandem fast atom bombard
A;Reference number: S08995; MUID:90253659; PMID:2340112
A;Accession: S08998

A;Molecule type: protein
A;Residues: 1-10 <GAE>
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;10/Modified site: amidated carboxyl end (Thr) #status experimental

Query Match 2.6%; Score 28; DB 2; Length 10;
Best Local Similarity 50.0%; Pred. No. 1.3e+04;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 124 HYGPGW 129
:: |||
Db 3 NFSPGW 8

RESULT 12

A26381
hypertrehalosemic hormone - gray cockroach
C;Species: Nauphoeta cinerea (gray cockroach)
C;Date: 31-Mar-1988 #sequence_revision 24-Oct-1997 #text_change 31-Oct-1997
C;Accession: A26381
R;Gaede, G.; Rinehart Jr., K.L.
Biochem. Biophys. Res. Commun. 141, 774-781, 1986
A;Title: Amino acid sequence of a hypertrehalosemic neuropeptide from the corpus cardia
A;Reference number: A26381; MUID:87100208; PMID:3801028
A;Accession: A26381

A;Molecule type: protein
A;Residues: 1-10 <GAD>

A;Note: the amino-terminal residue forms pyrrolidone carboxylic acid; therefore, we have
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;10/Modified site: amidated carboxyl end (Thr) #status experimental

Query Match 2.6%; Score 28; DB 2; Length 10;
Best Local Similarity 50.0%; Pred. No. 1.3e+04;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 124 HYGPGW 129
:: |||
Db 3 NFSPGW 8

RESULT 13

S57575
T cell receptor V-J junctional alpha chain region - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 19-Oct-1995 #sequence_revision 17-Nov-1995 #text_change 05-Nov-1999
C;Accession: S57575

R;Burrows, S.R.; Silins, S.L.; Moss, D.J.; Khanna, R.; Misko, I.S.; Arguet, V.P.
submitted to the EMBL Data Library, June 1995
A;Description: T cell receptor repertoire for a viral epitope in humans is diversified b
A;Reference number: S57494
A;Accession: S57575
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-11 <BUR>
A;Cross-references: EMBL:Z49953; NID:g887510; PIDN:CAA90224.1; PID:g887511
C;Keywords: T-cell receptor

Query Match 2.6%; Score 28; DB 2; Length 11;
Best Local Similarity 71.4%; Pred. No. 1.4e+04;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 106 GGSIIYV 112
Db 5 GGKLIIFG 11

RESULT 14
PH1458
T-cell receptor beta chain (clone 332/1K) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 10-Mar-1994 #sequence_revision 10-Mar-1994 #text_change 17-Mar-1999
C;Accession: PH1458; S26543
R;Casanova, J.L.; Martinon, F.; Gournier, H.; Barra, C.; Pannetier, C.; Regnault, A.; Ko
J. Exp. Med. 177, 811-820, 1993
A;Title: T cell receptor selection by and recognition of two class I major histocompatib
A;Reference number: PH1430; MUID:93171821; PMID:8436911
A;Accession: PH1458
A;Molecule type: mRNA
A;Residues: 1-12 <CAS>
A;Experimental source: cytolytic T-lymphocyte, clone 332/1K
R;Casanova, J.L.; Cerottini, J.C.; Matthes, M.; Necker, A.; Gournier, H.; Barra, C.; Wid
J. Exp. Med. 176, 439-447, 1992
A;Title: H-2-restricted cytolytic T lymphocytes specific for HLA display T cell receptor
A;Reference number: S26512; MUID:92364546; PMID:1380061
A;Accession: S26543
A;Status: preliminary
A;Molecule type: mRNA
A;Cross-references: EMBL:X67993
A;Experimental source: cytolytic T-lymphocyte, clone Cw3/C44
C;Superfamily: immunoglobulin homology
C;Keywords: receptor; T-cell

Query Match 2.6%; Score 28; DB 2; Length 12;
Best Local Similarity 62.5%; Pred. No. 1.6e+04;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 95 QGGDFTRG 102
Db 5 QGSDYTFG 12

RESULT 15
S78766
ribosomal protein MRP-S28, mitochondrial - bovine (fragment)
C;Species: Bos primigenius taurus (cattle)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 20-Sep-1999
C;Accession: S78766
R;Graack, H.R.
submitted to the Protein Sequence Database, July 1999
A;Reference number: S78760
A;Accession: S78766
A;Molecule type: protein
A;Residues: 1-13 <GRA>
C;Keywords: mitochondrion
F;1-13/Product: ribosomal protein MRP-S28 (fragment) #status experimental <MAT>

Query Match 2.6%; Score 28; DB 2; Length 13;
Best Local Similarity 40.0%; Pred. No. 1.7e+04;

Matches 4; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 62 PKTYDNFVAL 71
Db 3 PKNVESFASM 12

RESULT 16
B56864
dipeptidyl-peptidase IV (EC 3.4.14.5) - bovine (fragment)
C;Species: Bos primigenius taurus (cattle)
C;Date: 05-Jan-1996 #sequence_revision 05-Jan-1996 #text_change 05-Jan-1996
C;Accession: B56864
R;Plakidou-Dymock, S.; McGivan, J.D.
Biochim. Biophys. Acta 1145, 105-112, 1993
A;Title: The oligomeric structure of renal aminopeptidase N from bovine brush-border mem
A;Reference number: A56864; MUID:93136203; PMID:8093665
A;Accession: B56864
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-13 <PLA>
A;Experimental source: renal brush-border membrane vesicles
C;Keywords: dipeptidylpeptide hydrolase

Query Match 2.5%; Score 27.5; DB 2; Length 13;
Best Local Similarity 35.0%; Pred. No. 1.9e+04;
Matches 7; Conservative 2; Mismatches 2; Indels 9; Gaps 1;

QY 149 VKTAWLDGKHVVFGKVLGEM 168
Db 1 MKTPW-----KVLISGL 11

RESULT 17
A46030
gonadoliberin I - spiny dogfish
N;Alternate names: gonadotropin-releasing hormone
C;Species: Squalus acanthias (spiny dogfish)
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 16-Dec-1998
C;Accession: A46030
R;Lovejoy, D.A.; Fischer, W.H.; Ngamvongchon, S.; Craig, A.G.; Nahorniak, C.S.; Peter, R
Proc. Natl. Acad. Sci. U.S.A. 89, 6373-6377, 1992
A;Title: Distinct sequence of gonadotropin-releasing hormone (GnRH) in dogfish brain pro
A;Reference number: A46030; MUID:92335300; PMID:1631133
A;Accession: A46030
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <LOV>
C;Keywords: hormone; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

Query Match 2.5%; Score 27; DB 2; Length 10;
Best Local Similarity 37.5%; Pred. No. 1.6e+04;
Matches 3; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 123 KHYGPGWV 130
Db 1 QHWSHGWL 8

RESULT 18
B60769
Ig H2 chain - Pacific hagfish (fragment)
C;Species: Eptatretus stouti (Pacific hagfish)
C;Date: 03-Jun-1993 #sequence_revision 03-Jun-1993 #text_change 03-Jun-1993
C;Accession: B60769
R;Hanley, P.J.; Seppelt, I.M.; Gooley, A.A.; Hook, J.W.; Raison, R.L.
J. Immunol. 145, 3823-3828, 1990
A;Title: Distinct Ig H chains in a primitive vertebrate, Eptatretus stouti.
A;Reference number: A60769; MUID:91060965; PMID:2123225
A;Accession: B60769
A;Status: preliminary
A;Molecule type: protein

A;Residues: 1-11 <HAN>

Query Match 2.5%; Score 27; DB 2; Length 11;
Best Local Similarity 83.3%; Pred. No. 1.7e+04;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 90 KDFMIQ 95
:|||||
Db 4 EDFMIQ 9

RESULT 19
PA0096
pyruvate decarboxylase (EC 4.1.1.1) 1 - fungus (Fusarium sporotrichioides) (fragment)
C;Species: Fusarium sporotrichioides
C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 23-Mar-2001
C;Accession: PA0096
R;Chow, L.P.; Fukaya, N.; Sugiyura, Y.; Ueno, Y.; Tabuchi, K.; Tsugita, A.
submitted to JIPID, October 1994
A;Description: Two dimensional polyacrylamide gel electrophoresis of Fusarium sporotrichioides
A;Reference number: PA0051
A;Accession: PA0096
A;Molecule type: protein
A;Residues: 1-14 <CHO>
C;Keywords: carbon-carbon lyase; carboxy-lyase

Query Match 2.5%; Score 27; DB 2; Length 14;
Best Local Similarity 50.0%; Pred. No. 2.2e+04;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 36 VKVYFDLRIGDE 47
| |||||
Db 1 VXAYFDGLPGDQ 12

RESULT 20
PH0801
T-cell receptor alpha chain (JS) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PH0801
R;Casanova, J.L.; Romero, P.; Widmann, C.; Kourilsky, P.; Maryanski, J.L.
J. Exp. Med. 174, 1371-1383, 1991
A;Title: T cell receptor genes in a series of class I major histocompatibility complex-allelic exclusion and antigen-specific repertoire.
A;Reference number: PH0746; MUID:92078846; PMID:1836010
A;Accession: PH0801
A;Molecule type: mRNA
A;Residues: 1-14 <CAS>
A;Cross-references: EMBL:X60909
A;Experimental source: T lymphocyte
C;Keywords: T-cell receptor

Query Match 2.5%; Score 27; DB 2; Length 14;
Best Local Similarity 55.6%; Pred. No. 2.2e+04;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 104 GTGGKSIYG 112
|||||
Db 6 GTGSKLSFG 14

RESULT 21
S07206
kassinin - Senegal running frog
C;Species: Kassina senegalensis (Senegal running frog)
C;Date: 12-Feb-1993 #sequence_revision 12-Feb-1993 #text_change 02-Sep-2000
C;Accession: S07206
R;Anastasi, A.; Montecucchi, P.; Erspamer, V.; Visser, J.
Experientia 33, 857-858, 1977
A;Title: Amino acid composition and sequence of kassinin, a tachykinin dodecapeptide from Senegal
A;Reference number: S07206; MUID:77246385; PMID:891753
A;Accession: S07206

A;Molecule type: protein
A;Residues: 1-12 <ANA>
C;Superfamily: unassigned animal peptides
C;Keywords: amidated carboxyl end
F;12/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 2.4%; Score 26.5; DB 2; Length 12;
Best Local Similarity 63.6%; Pred. No. 2.1e+04;
Matches 7; Conservative 1; Mismatches 2; Indels 1; Gaps 1;

QY 61 VPKTVDNFVAL 71
|||: |||
Db 2 VPKS-DQFVGL 11

RESULT 22
A23695
myosin heavy chain, smooth muscle - chicken (fragment)
C;Species: Gallus gallus (chicken)
C;Date: 04-Oct-1991 #sequence_revision 04-Oct-1991 #text_change 02-Feb-2001
C;Accession: A23695
R;Garabedian, T.E.; Yount, R.G.
J. Biol. Chem. 265, 22547-22553, 1990
A;Title: Direct photoaffinity labeling of gizzard myosin with [3H]uridine diphosphate phosphate
A;Reference number: A23695; MUID:91093106; PMID:1979981
A;Accession: A23695

A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-13 <GAR>
C;Superfamily: myosin heavy chain; myosin motor domain homology
C;Keywords: nucleotide binding; P-loop; smooth muscle
F;2-9/Region: nucleotide-binding motif A (P-loop)

Query Match 2.4%; Score 26.5; DB 2; Length 13;
Best Local Similarity 53.8%; Pred. No. 2.3e+04;
Matches 7; Conservative 2; Mismatches 3; Indels 1; Gaps 1;

QY 73 TGEKGFYKNSK 84
|||: |||
Db 1 TGESGAGKTENTK 13

RESULT 23
S33802
chaperone, TCP1-related - oat
C;Species: Avena sativa (oat)
C;Date: 02-Dec-1993 #sequence_revision 27-Feb-1997 #text_change 17-Mar-1999
C;Accession: S33802
R;Mummert, E.; Grimm, R.; Speth, V.; Eckerskorn, C.; Schiltz, E.; Gartenby, A.A.; Schaefer, J.
Nature 363, 644-648, 1993
A;Title: A TCP1-related molecular chaperone from plants refolds phytochrome to its photoactive form
A;Reference number: S33800; MUID:93288140; PMID:8099715
A;Accession: S33802
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-14 <MUM>

Query Match 2.4%; Score 26.5; DB 2; Length 14;
Best Local Similarity 46.2%; Pred. No. 2.5e+04;
Matches 6; Conservative 2; Mismatches 2; Indels 3; Gaps 1;

QY 118 ENFKLKHYPGWV 130
|: |||
Db 3 ESAKL---GPWWI 12

RESULT 24
PH0747
T-cell receptor beta chain (M1) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PH0747
R;Casanova, J.L.; Romero, P.; Widmann, C.; Kourilsky, P.; Maryanski, J.L.

J. Exp. Med. 174, 1371-1383, 1991
A;Title: T cell receptor genes in a series of class I major histocompatibility complex-
allelic exclusion and antigen-specific repertoire.
A;Reference number: PH0746; MUID:92078846; PMID:1836010
A;Accession: PH0747
A;Molecule type: mRNA
A;Residues: 1-14 <CAS>
A;Cross-references: EMBL:X60838
A;Experimental source: T lymphocyte
C;Keywords: T-cell receptor

Query Match 2.4%; Score 26.5; DB 2; Length 14;
Best Local Similarity 50.0%; Pred. No. 2.5e+04;
Matches 6; Conservative 2; Mismatches 1; Indels 3; Gaps 1;

QY 104 GTGGKSIYGERP 115
: : : :
Db 4 GTGG---FAEQF 12

RESULT 25
S55310
adipokinetic hormone - damselfly (Pseudagrion inconspicuum)
N;Alternate names: Psi-AKH
C;Species: Pseudagrion inconspicuum
C;Date: 19-Mar-1997 #sequence_revision 31-Oct-1997 #text_change 07-May-1999
C;Accession: S55310
R;Janssens, M.P.E.; Kellner, R.; Gaede, G.
Biochem. J. 302, 539-543, 1994
A;Title: A novel adipokinetic octapeptide found in the damselflies Pseudagrion inconspic
A;Reference number: S55310; MUID:94379987; PMID:8093008
A;Accession: S55310
A;Molecule type: protein
A;Residues: 1-8 <JAN>
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;8/Modified site: amidated carboxyl end (Trp) #status experimental

Query Match 2.4%; Score 26; DB 2; Length 8;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 124 HYGPGW 129
: : : :
Db 3 NFTP GW 8

RESULT 26
A58620
adipokinetic hormone - damselfly (Ischnura senegalensis)
C;Species: Ischnura senegalensis
C;Date: 28-Oct-1997 #sequence_revision 31-Oct-1997 #text_change 07-May-1999
C;Accession: A58620
R;Janssens, M.P.E.; Kellner, R.; Gaede, G.
Biochem. J. 302, 539-543, 1994
A;Title: A novel adipokinetic octapeptide found in the damselflies Pseudagrion inconspic
A;Reference number: S55310; MUID:94379987; PMID:8093008
A;Accession: A58620
A;Molecule type: protein
A;Residues: 1-8 <JAN>
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;8/Modified site: amidated carboxyl end (Trp) #status experimental

Query Match 2.4%; Score 26; DB 2; Length 8;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 124 HYGPGW 129
: : : :
Db 3 NFTP GW 8

RESULT 27
PT0554
T-cell receptor beta chain V-D-J region (126-1G) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PT0554
R;Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A;Reference number: PT0509; MUID:91277601; PMID:1711558
A;Accession: PT0554
A;Status: translation not shown
A;Molecule type: mRNA
A;Residues: 1-8 <FEE>
A;Experimental source: day 18 fetal thymus, strain BALB/c
C;Keywords: T-cell receptor

Query Match 2.4%; Score 26; DB 2; Length 8;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 72 ATGEKGF 79
: : : :
Db 1 ASGDEGLG 8

RESULT 28
PT0231
Ig heavy chain CDR3 region (clone 1-118B) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0231
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and
A;Reference number: PT0222; MUID:91108337; PMID:1899102
A;Accession: PT0231
A;Molecule type: DNA
A;Residues: 1-9 <YAM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin

Query Match 2.4%; Score 26; DB 2; Length 9;
Best Local Similarity 57.1%; Pred. No. 2.8e+05;
Matches 4; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 125 YGPGWVS 131
: : : :
Db 3 HSSGWVS 9

RESULT 29
RHAQ2
gonadoliberin II - American alligator
N;Alternate names: gonadotropin-releasing hormone II
C;Species: Alligator mississippiensis (American alligator)
C;Date: 31-Mar-1993 #sequence_revision 31-Mar-1993 #text_change 18-Mar-1997
C;Accession: B60066
R;Lovejoy, D.A.; Fischer, W.H.; Parker, D.B.; McRory, J.E.; Park, M.; Lance, V.; Swanson
Regul. Pept. 33, 105-116, 1991
A;Title: Primary structure of two forms of gonadotropin-releasing hormone from brains of
A;Reference number: A60066; MUID:91352338; PMID:1882082
A;Accession: B60066
A;Molecule type: protein
A;Residues: 1-10 <LOV>
C;Superfamily: gonadoliberin
C;Keywords: amidated carboxyl end; hormone; hypothalamus; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;10/Modified site: amidated carboxyl end (Gly) #status experimental

Query Match 2.4%; Score 26; DB 1; Length 10;

Best Local Similarity 42.9%; Pred. No. 1.9e+04;
Matches 3; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 123 KHYGPGW 129
:|: ||
Db 1 QHWSHGW 7

RESULT 30
A61126
gonadoliberin - spotted ratfish
N;Alternate names: gonadotropin-releasing hormone
C;Species: Hydrolagus colliei (spotted ratfish)
C;Date: 26-May-1994 #sequence_revision 26-May-1994 #text_change 18-Mar-1997
C;Accession: A61126
R;Lovejoy, D.A.; Sherwood, N.M.; Fischer, W.H.; Jackson, B.C.; Rivier, J.E.; Lee, T.
Gen. Comp. Endocrinol. 82, 152-161, 1991
A;Title: Primary structure of gonadotropin-releasing hormone from the brain of a holocarpine
A;Reference number: A61126; MUID:91340067; PMID:1678723
A;Accession: A61126
A;Molecule type: protein
A;Residues: 1-10 <LOV>
A;Experimental source: brain
C;Superfamily: gonadoliberin
C;Keywords: amidated carboxyl end; brain; hormone; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;10/Modified site: amidated carboxyl end (Gly) #status experimental

Query Match 2.4%; Score 26; DB 1; Length 10;
Best Local Similarity 42.9%; Pred. No. 1.9e+04;
Matches 3; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 123 KHYGPGW 129
:|: ||
Db 1 QHWSHGW 7

RESULT 31
B46030
gonadoliberin II - spiny dogfish
N;Alternate names: gonadotropin-releasing hormone
C;Species: Squalus acanthias (spiny dogfish)
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 20-Jan-2003
C;Accession: B46030
R;Lovejoy, D.A.; Fischer, W.H.; Ngamvongchon, S.; Craig, A.G.; Nahorniak, C.S.; Peter, R.
Proc. Natl. Acad. Sci. U.S.A. 89, 6373-6377, 1992
A;Title: Distinct sequence of gonadotropin-releasing hormone (GnRH) in dogfish brain pro
A;Reference number: A46030; MUID:92335300; PMID:1631133
A;Accession: B46030
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <LOV>
C;Superfamily: gonadoliberin
C;Keywords: hormone; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

Query Match 2.4%; Score 26; DB 2; Length 10;
Best Local Similarity 42.9%; Pred. No. 1.9e+04;
Matches 3; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 123 KHYGPGW 129
:|: ||
Db 1 QHWSHGW 7

RESULT 32
A21114
gonadoliberin - chum salmon
C;Species: Oncorhynchus keta (chum salmon)
C;Date: 10-Aug-1990 #sequence_revision 10-Aug-1990 #text_change 18-Jun-1993
C;Accession: A21114
R;Sherwood, N.; Eiden, L.; Brownstein, M.; Spiess, J.; Rivier, J.; Vale, W.
Proc. Natl. Acad. Sci. U.S.A. 80, 2794-2798, 1983

Best Local Similarity 42.9%; Pred. No. 1.9e+04;
Matches 3; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 123 KHYGPGW 129
:|: ||
Db 1 QHWSHGW 7

RESULT 30
A61126
gonadoliberin - spotted ratfish
N;Alternate names: gonadotropin-releasing hormone
C;Species: Hydrolagus colliei (spotted ratfish)
C;Date: 26-May-1994 #sequence_revision 26-May-1994 #text_change 18-Mar-1997
C;Accession: A61126
R;Lovejoy, D.A.; Sherwood, N.M.; Fischer, W.H.; Jackson, B.C.; Rivier, J.E.; Lee, T.
Gen. Comp. Endocrinol. 82, 152-161, 1991
A;Title: Primary structure of gonadotropin-releasing hormone from the brain of a holocarpine
A;Reference number: A61126; MUID:91340067; PMID:1678723
A;Accession: A61126
A;Molecule type: protein
A;Residues: 1-10 <LOV>
A;Experimental source: brain
C;Superfamily: gonadoliberin
C;Keywords: amidated carboxyl end; brain; hormone; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;10/Modified site: amidated carboxyl end (Gly) #status experimental

Query Match 2.4%; Score 26; DB 1; Length 10;
Best Local Similarity 42.9%; Pred. No. 1.9e+04;
Matches 3; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 123 KHYGPGW 129
:|: ||
Db 1 QHWSHGW 7

RESULT 31
B46030
gonadoliberin II - spiny dogfish
N;Alternate names: gonadotropin-releasing hormone
C;Species: Squalus acanthias (spiny dogfish)
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 20-Jan-2003
C;Accession: B46030
R;Lovejoy, D.A.; Fischer, W.H.; Ngamvongchon, S.; Craig, A.G.; Nahorniak, C.S.; Peter, R.
Proc. Natl. Acad. Sci. U.S.A. 89, 6373-6377, 1992
A;Title: Distinct sequence of gonadotropin-releasing hormone (GnRH) in dogfish brain pro
A;Reference number: A46030; MUID:92335300; PMID:1631133
A;Accession: B46030
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <LOV>
C;Superfamily: gonadoliberin
C;Keywords: hormone; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

Query Match 2.4%; Score 26; DB 2; Length 10;
Best Local Similarity 42.9%; Pred. No. 1.9e+04;
Matches 3; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 123 KHYGPGW 129
:|: ||
Db 1 QHWSHGW 7

RESULT 32
A21114
gonadoliberin - chum salmon
C;Species: Oncorhynchus keta (chum salmon)
C;Date: 10-Aug-1990 #sequence_revision 10-Aug-1990 #text_change 18-Jun-1993
C;Accession: A21114
R;Sherwood, N.; Eiden, L.; Brownstein, M.; Spiess, J.; Rivier, J.; Vale, W.
Proc. Natl. Acad. Sci. U.S.A. 80, 2794-2798, 1983

A;Title: Characterization of a teleost gonadotropin-releasing hormone.
A;Reference number: A21114; MUID:83195140; PMID:6341999
A;Accession: A21114
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <SHE>

Query Match 2.4%; Score 26; DB 2; Length 10;
Best Local Similarity 37.5%; Pred. No. 1.9e+04;
Matches 3; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 123 KHYGPGW 130
:|: ||
Db 1 QHWSYGWL 8

RESULT 33

C38887
T-cell receptor gamma chain (5a.3) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
C;Accession: C38887
R;Whetsell, M.; Mosley, R.L.; Whetsell, L.; Schaefer, F.V.; Miller, K.S.; Klein, J.R.
Mol. Cell. Biol. 11, 5902-5909, 1991
A;Title: Rearrangement and junctional-site sequence analyses of T-cell receptor gamma ger
A;Reference number: A41946; MUID:92049316; PMID:1658619
A;Accession: C38887
A;Status: preliminary; not compared with conceptual translation
A;Molecule type: DNA
A;Residues: 1-11 <WHE>
C;Keywords: T-cell receptor

Query Match 2.4%; Score 26; DB 2; Length 11;
Best Local Similarity 57.1%; Pred. No. 2.1e+04;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 135 AGKDTNG 141
||:|:|
Db 4 AGRDSSG 10

RESULT 34

S26544
T-cell receptor beta chain (clone Cw3/HLA1C8) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 13-Jan-1995 #sequence_revision 17-Apr-1998 #text_change 17-Mar-1999
C;Accession: S26544
R;Casanova, J.L.; Cerottini, J.C.; Matthes, M.; Necker, A.; Gournier, H.; Barra, C.; Widn
J. Exp. Med. 176, 439-447, 1992
A;Title: H-2-restricted cytolytic T lymphocytes specific for HLA display T cell receptor;
A;Reference number: S26512; MUID:92364546; PMID:1380061
A;Accession: S26544
A;Molecule type: mRNA
A;Residues: 1-12 <CAS>
A;Cross-references: EMBL:X67994
A;Experimental source: cytolytic T-lymphocyte, clone Cw3/HLA1C8
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: T-cell receptor

Query Match 2.4%; Score 26; DB 2; Length 12;
Best Local Similarity 62.5%; Pred. No. 2.3e+04;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 95 QGGDFTRG 102
||:|:|
Db 5 QGTDYTFG 12

RESULT 35

S65730
hemoglobin, extracellular, component - earthworm (Lumbricus terrestris) (fragment)
C;Species: Lumbricus terrestris (common earthworm)
C;Date: 06-Dec-1996 #sequence_revision 13-Mar-1997 #text_change 13-Mar-1997

C;Accession: S65730
R;Fushitani, K.; Higashiyama, K.; Asao, M.; Hosokawa, K.
Biochim. Biophys. Acta 1292, 273-280, 1996
A;Title: Characterization of the constituent polypeptides of the extracellular hemoglobin
A;Reference number: S65721; MUID:96176855; PMID:8597573
A;Accession: S65730
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-12 <FUS>

Query Match 2.4%; Score 26; DB 2; Length 12;
Best Local Similarity 83.3%; Pred. No. 2.3e+04;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 21 GPSAAD 26
|||
Db 2 GPSARD 7

RESULT 36
C53275
Ig kappa-1 chain J3 segment b95 allotype - rabbit (fragment)
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 02-May-1994 #sequence_revision 18-Nov-1994 #text_change 16-Aug-1996
C;Accession: C53275
R;Ayadi, H.; Marche, P.N.; Cazenave, P.A.
Immunogenetics 34, 201-207, 1991
A;Title: Evolution of the rabbit immunoglobulin kappa chain genes.
A;Reference number: A53275; MUID:91372868; PMID:1909995
A;Accession: C53275
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-13 <AVA>

A;Note: sequence extracted from NCBI backbone (NCBIN:56069, NCBIP:56164)
C;Comment: This J3 segment may not be functional because of substitutions in the 7 mer a
C;Keywords: heterotetramer; immunoglobulin

Query Match 2.4%; Score 26; DB 2; Length 13;
Best Local Similarity 83.3%; Pred. No. 2.5e+04;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 100 TRGDGT 105
|||
Db 2 TRGPGT 7

RESULT 37
JN0390
histamine-releasing peptide II - oriental hornet
N;Alternate names: venom protein HR-2
C;Species: Vespa orientalis (oriental hornet)
C;Date: 15-Jan-1993 #sequence_revision 15-Jan-1993 #text_change 23-Aug-1997
C;Accession: JN0390; S10919
R;Miroshnikov, A.I.; Snezhkova, L.G.; Nazimov, I.V.; Reshetova, O.I.; Rozinov, B.V.; Gus
Bioorg. Khim. 7, 1467-1477, 1981
A;Title: Structure and properties of histamine releasing peptides from the venom of Vesp
A;Reference number: JN0389
A;Accession: JN0390
A;Molecule type: protein
A;Residues: 1-14 <MIR>
R;Tuichibaev, M.U.; Akhmedova, N.U.; Kazakov, I.; Korneev, A.S.; Gagel'gans, A.I.
Biochemistry (N.Y.) 53, 183-190, 1988
A;Title: Low-molecular-weight peptides of venom of the giant hornet Vespa orientalis. St
A;Reference number: S06445
A;Accession: S10919
A;Molecule type: protein
A;Residues: 1-14 <TUI>

C;Superfamily: crabrolin
C;Keywords: amidated carboxyl end; venom
F;14/Modified site: amidated carboxyl end (Leu) #status experimental

Query Match 2.4%; Score 26; DB 2; Length 14;
Best Local Similarity 30.0%; Pred. No. 2.7e+04;

Matches 3; Conservative 6; Mismatches 1; Indels 0; Gaps 0;
Qy 159 VVFGKVLGEM 168
::||::||
Db 4 LILGLVKGL 13

RESULT 38
PH0795
T-cell receptor alpha chain (K1 V-alpha-4.3) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PH0795
R;Casanova, J.L.; Romero, P.; Widmann, C.; Kourilsky, P.; Maryanski, J.L.
J. Exp. Med. 174, 1371-1383, 1991
A;Title: T cell receptor genes in a series of class I major histocompatibility complex-
allelic exclusion and antigen-specific repertoire.
A;Reference number: PH0746; MUID:92078846; PMID:1836010
A;Accession: PH0795
A;Molecule type: mRNA
A;Residues: 1-14 <CAS>
A;Cross-references: EMBL:X60900
A;Experimental source: T lymphocyte
C;Keywords: T-cell receptor

Query Match 2.4%; Score 26; DB 2; Length 14;
Best Local Similarity 36.4%; Pred. No. 2.7e+04;
Matches 4; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 102 GDGTGGRSIYG 112
|::||:
Db 4 GEGSNAKLTFG 14

RESULT 39
S15422
adipokinetic hormone - cockchafer
C;Species: Melolontha melolontha (cockchafer)
C;Date: 19-Mar-1997 #sequence_revision 31-Oct-1997 #text_change 31-Oct-1997
C;Accession: S15422
R;Gaede, G.
Biochem. J. 275, 671-677, 1991
A;Title: A unique charged tyrosine-containing member of the adipokinetic hormone/ red-pi
A;Reference number: S15422; MUID:91248100; PMID:2039445
A;Accession: S15422
A;Molecule type: protein
A;Residues: 1-8 <Bio>
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;8/Modified site: amidated carboxyl end (Trp) #status experimental

Query Match 2.3%; Score 25; DB 2; Length 8;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 124 HYGPGW 129
:|
Db 3 NYSPDW 8

RESULT 40
A33995
adipokinetic hormone - black horse fly
C;Species: Tabanus atratus (black horse fly)
C;Date: 23-Mar-1990 #sequence_revision 23-Mar-1990 #text_change 31-Oct-1997
C;Accession: A33995
R;Jaffe, H.; Raina, A.K.; Riley, C.T.; Fraser, B.A.; Nachman, R.J.; Vogel, V.W.; Zhang,
Proc. Natl. Acad. Sci. U.S.A. 86, 8161-8164, 1989
A;Title: Primary structure of two neuropeptide hormones with adipokinetic and hypotrehal
A;Reference number: A33995; MUID:90046758; PMID:2813385
A;Accession: A33995
A;Molecule type: protein

A;Residues: 1-8 <JAF>
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; corpora cardiaca; hormone; neuropeptide; pyroglutamic
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status predicted
F;8/Modified site: amidated carboxyl end (Trp) #status predicted

Query Match 2.3%; Score 25; DB 2; Length 8;
Best Local Similarity 60.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 125 YGPGW 129
: |||
Db 4 FTPGW 8

RESULT 41
A58641
adipokinetic hormone - dor beetle
C;Species: Geotrupes stercorosus (dor beetle)
C;Date: 28-Oct-1997 #sequence_revision 31-Oct-1997 #text_change 31-Oct-1997
C;Accession: A58641
R;Gaede, G.
Biochem. J. 275, 671-677, 1991
A;Title: A unique charged tyrosine-containing member of the adipokinetic hormone/ red-pi
A;Reference number: S15422; MUID:91248100; PMID:2039445
A;Accession: A58641
A;Molecule type: protein
A;Residues: 1-8 <BIO>
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;8/Modified site: amidated carboxyl end (Trp) #status experimental

Query Match 2.3%; Score 25; DB 2; Length 8;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 124 HYGPGW 129
: |||
Db 3 NYSPDW 8

RESULT 42
S21663
neuropeptide - flower beetle (Pachnoda marginata)
C;Species: Pachnoda marginata
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
C;Accession: S21663
R;Gaede, G.; Lopata, A.; Kellner, R.; Rinehart, K.L.
Biol. Chem. Hoppe-Seyler 373, 133-142, 1992
A;Title: Primary structures of neuropeptides isolated from the corpora cardiaca of vari
ectrometry.
A;Reference number: S21663; MUID:92265187; PMID:1586453
A;Accession: S21663
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-8 <GAE>

Query Match 2.3%; Score 25; DB 2; Length 8;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 124 HYGPGW 129
: |||
Db 3 NYSPDW 8

RESULT 43
PT0595
T-cell receptor beta chain V-D-J region (100-2AA) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PT0595

R;Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A;Reference number: PT0509; MUID:91277601; PMID:1711558
A;Accession: PT0595
A;Status: translation not shown
A;Molecule type: mRNA
A;Residues: 1-8 <FEE>
A;Experimental source: newborn thymus, strain BALB/c
C;Keywords: T-cell receptor

Query Match 2.3%; Score 25; DB 2; Length 8;
Best Local Similarity 80.0%; Pred. No. 2.8e+05;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 103 DGTGG 107
: |||
Db 4 EGTGG 8

RESULT 44
B33995
hypotrehalosemic hormone - black horse fly
C;Species: Tabanus atratus (black horse fly)
C;Date: 23-Mar-1990 #sequence_revision 23-Mar-1990 #text_change 31-Oct-1997
C;Accession: B33995
R;Jaffe, H.; Raina, A.K.; Riley, C.T.; Fraser, B.A.; Nachman, R.J.; Vogel, V.W.; Zhang, J
Proc. Natl. Acad. Sci. U.S.A. 86, 8161-8164, 1989
A;Title: Primary structure of two neuropeptide hormones with adipokinetic and hypotrehalc
A;Reference number: A33995; MUID:90046758; PMID:2813385
A;Accession: B33995
A;Molecule type: protein
A;Residues: 1-10 <JAF>
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; corpora cardiaca; hormone; neuropeptide; pyroglutamic
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status predicted
F;10/Modified site: amidated carboxyl end (Tyr) #status predicted

Query Match 2.3%; Score 25; DB 2; Length 10;
Best Local Similarity 60.0%; Pred. No. 2.3e+04;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 125 YGPGW 129
: |||
Db 4 FTPGW 8

RESULT 45
A60476
S-layer protein - Bacillus thuringiensis (fragment)
C;Species: Bacillus thuringiensis
C;Date: 20-Feb-1993 #sequence_revision 20-Feb-1993 #text_change 12-Mar-1993
C;Accession: A60476
R;Iuckevich, M.D.; Beveridge, T.J.
J. Bacteriol. 171, 6656-6667, 1989
A;Title: Characterization of a dynamic S layer on Bacillus thuringiensis.
A;Reference number: A60476; MUID:90078111; PMID:2592346
A;Accession: A60476
A;Molecule type: protein
A;Residues: 1-10 <LUC>
C;Comment: The S-layer, or surface array, is the outermost component of several archaea

Query Match 2.3%; Score 25; DB 2; Length 10;
Best Local Similarity 66.7%; Pred. No. 2.3e+04;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 112 GERFPD 117
: |||
Db 2 GKTFPD 7

Search completed: August 30, 2004, 10:58:53
Job time : 62.5405 secs

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OM protein - protein search, using sw model

Run on: August 30, 2004, 10:49:45 ; Search time 254.378 Seconds
(without alignments)
257.253 Million cell updates/sec

Title: US-09-720-469A-44
Perfect score: 1083
Sequence: 1 MKVLLAAALAGSVFFLLP.....VIIADCGKIEVEKPAIAKE 208

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1297172 seqs, 314612898 residues

Total number of hits satisfying chosen parameters: 149443

Minimum DB seq length: 8
Maximum DB seq length: 14

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.*

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- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
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- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	83	7.7	14	15	US-10-394-980-52
2	54	5.0	14	12	US-10-014-340-347
3	50	4.6	9	16	US-10-447-161-85
4	50	4.6	9	16	US-10-788-016-2
5	49	4.5	9	16	US-10-447-161-84
6	49	4.5	9	16	US-10-788-016-1
7	47	4.3	9	16	US-10-788-016-9
8	36	3.3	11	10	US-09-972-656-7
9	36	3.3	13	9	US-09-873-637-9
10	36	3.3	13	10	US-09-876-904A-242
11	36	3.3	13	13	US-10-038-612-168
12	35	3.2	9	16	US-10-264-309-118
13	35	3.2	11	16	US-10-356-257-142
14	35	3.2	13	14	US-10-300-694A-66
15	35	3.2	14	12	US-10-247-839-101

16	34	3.1	9	12	US-09-988-493-293	Sequence 293, App
17	34	3.1	9	12	US-10-014-340-209	Sequence 209, App
18	34	3.1	11	12	US-09-995-388-8	Sequence 8, Appli
19	34	3.1	12	12	US-09-995-388-5	Sequence 5, Appli
20	34	3.1	12	14	US-10-193-477-146	Sequence 146, App
21	34	3.1	12	14	US-10-193-477-168	Sequence 168, App
22	32.5	3.0	13	14	US-10-017-193-8	Sequence 8, Appli
23	32	3.0	9	9	US-09-802-077-50	Sequence 50, Appl
24	32	3.0	9	9	US-09-802-096-50	Sequence 50, Appl
25	32	3.0	9	10	US-09-925-179-50	Sequence 50, Appl
26	32	3.0	9	14	US-10-223-172A-27	Sequence 27, Appl
27	32	3.0	9	14	US-10-224-999A-27	Sequence 27, Appl
28	32	3.0	10	9	US-09-802-077-17	Sequence 17, Appl
29	32	3.0	10	9	US-09-802-077-46	Sequence 46, Appl
30	32	3.0	10	9	US-09-802-096-17	Sequence 17, Appl
31	32	3.0	10	9	US-09-802-096-46	Sequence 46, Appl
32	32	3.0	10	10	US-09-925-179-17	Sequence 17, Appl
33	32	3.0	10	10	US-09-925-179-46	Sequence 46, Appl
34	32	3.0	10	10	US-09-755-630A-33	Sequence 33, Appl
35	32	3.0	10	14	US-10-223-172A-33	Sequence 33, Appl
36	32	3.0	10	14	US-10-224-999A-33	Sequence 33, Appl
37	32	3.0	11	12	US-09-995-388-9	Sequence 9, Appli
38	32	3.0	12	12	US-10-601-837-103	Sequence 103, App
39	32	3.0	12	14	US-10-224-999A-2922	Sequence 2922, Ap
40	32	3.0	13	10	US-09-991-225-19	Sequence 19, Appl
41	32	3.0	13	10	US-09-991-225-38	Sequence 38, Appl
42	32	3.0	13	12	US-10-369-405-19	Sequence 19, Appl
43	32	3.0	13	12	US-10-369-405-38	Sequence 38, Appl
44	32	3.0	13	14	US-10-224-999A-2931	Sequence 2931, Ap
45	32	3.0	13	14	US-10-224-999A-2932	Sequence 2932, Ap

ALIGNMENTS

RESULT 1

US-10-394-980-52
; Sequence 52, Application US/10394980
; Publication No. US20040005633A1
; GENERAL INFORMATION:
; APPLICANT: Vandekerckhove, Joel
; APPLICANT: Gevaert, Kris
; TITLE OF INVENTION: METHODS AND APPARATUS FOR GEL-FREE QUALITATIVE AND
; TITLE OF INVENTION: QUANTITATIVE PROTEOME ANALYSIS, AND USES THEREFOR
; FILE REFERENCE: VBV-001
; CURRENT APPLICATION NUMBER: US/10/394,980
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: PCT/EP02/03368
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: US60/278,171
; PRIOR FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: US60/318,749
; PRIOR FILING DATE: 2001-09-12
; PRIOR APPLICATION NUMBER: US60/323,999
; PRIOR FILING DATE: 2001-09-20
; NUMBER OF SEQ ID NOS: 473
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 52
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: part of CYPB_HUMAN (peptidyl-prolyl cis-trans isomerase B)
US-10-394-980-52

Query Match 7.7%; Score 83; DB 15; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.031;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 124 HYGPGWVSMANAGK 137
| | | | | | | | | | | | | | | |
Db 1 HYGPGWVSMANAGK 14

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; PRIOR APPLICATION NUMBER: JP P2001-260046
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Peptide consisting of 9 amino acid residues from the 91st residue
; OTHER INFORMATION: to the 99th residue of cyclophilin B
US-10-788-016-2

Query Match          4.6%; Score 50; DB 16; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.2e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      91 DFMIQGGDF 99
Db      1 DFMIQGGDF 9

RESULT 5
US-10-447-161-84
; Sequence 84, Application US/10447161
; Publication No. US20040023314A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Rong-fu
; TITLE OF INVENTION: Mutant Fibronectin and Tumor Metastasis
; FILE REFERENCE: HO-P02484US1
; CURRENT APPLICATION NUMBER: US/10/447,161
; CURRENT FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: 60/383,530
; PRIOR FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 84
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-447-161-84

Query Match          4.5%; Score 49; DB 16; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.2e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      84 KFHVRVVKDF 92
Db      1 KFHVRVVKDF 9

RESULT 6
US-10-788-016-1
; Sequence 1, Application US/10788016
; Publication No. US20040141992A1
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo
; TITLE OF INVENTION: Desensitizers
; FILE REFERENCE: 3190-049
; CURRENT APPLICATION NUMBER: US/10/788,016
; CURRENT FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/JP02/08641
; PRIOR FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: JP P2001-260046
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial
;

; TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and Uses Therefor, Including
; TITLE OF INVENTION: Diagnosis and Treatment of Alzheimer's Disease
; FILE REFERENCE: 9195-078
; CURRENT APPLICATION NUMBER: US/10/014,340
; CURRENT FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 823
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 347
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-014-340-347

Query Match          5.0%; Score 54; DB 12; Length 14;
Best Local Similarity 71.4%; Pred. No. 49;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      88 VIKDFMIQGGDFTR 101
Db      1 IIPGEMCQGGDFTR 14

RESULT 3
US-10-447-161-85
; Sequence 85, Application US/10447161
; Publication No. US20040023314A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Rong-fu
; TITLE OF INVENTION: Mutant Fibronectin and Tumor Metastasis
; FILE REFERENCE: HO-P02484US1
; CURRENT APPLICATION NUMBER: US/10/447,161
; CURRENT FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: 60/383,530
; PRIOR FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 85
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-447-161-85

Query Match          4.6%; Score 50; DB 16; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.2e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      91 DFMIQGGDF 99
Db      1 DFMIQGGDF 9

RESULT 4
US-10-788-016-2
; Sequence 2, Application US/10788016
; Publication No. US20040141992A1
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo
; TITLE OF INVENTION: Desensitizers
; FILE REFERENCE: 3190-049
; CURRENT APPLICATION NUMBER: US/10/788,016
; CURRENT FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/JP02/08641
; PRIOR FILING DATE: 2002-08-28
```

; FEATURE:
; OTHER INFORMATION: Peptide consisting of 9 amino acid residues from the 84th residue
; OTHER INFORMATION: to the 92nd residue of cyclophilin B
US-10-788-016-1

Query Match 4.5%; Score 49; DB 16; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.2e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 84 KFHRRVIKDF 92
|||
Db 1 KFHRRVIKDF 9

RESULT 7

US-10-788-016-9
; Sequence 9, Application US/10788016
; Publication No. US20040141992A1
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo
; TITLE OF INVENTION: Desensitizers
; FILE REFERENCE: 3190-049
; CURRENT APPLICATION NUMBER: US/10/788,016
; CURRENT FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/JP02/08641
; PRIOR FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: JP P2001-260046
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 9
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial

; FEATURE:
; OTHER INFORMATION: Designed peptide based on the peptide consisting of 9 amino acid
; OTHER INFORMATION: residues from the 91st residue to the 99th residue of
; OTHER INFORMATION: cyclophilin B
US-10-788-016-9

Query Match 4.3%; Score 47; DB 16; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.2e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 91 DFMIQGGDF 99
|:|
Db 1 DYMIQGGDF 9

RESULT 8

US-09-972-656-7
; Sequence 7, Application US/09972656
; Publication No. US20030099647A1
; GENERAL INFORMATION:
; APPLICANT: Deshpande, Rajendra
; APPLICANT: Tsai, Mei-Mei
; TITLE OF INVENTION: Fully Human Antibody Fab Fragments with Human Interferon-Gamma
; TITLE OF INVENTION: Neutralizing Activity
; FILE REFERENCE: A-799
; CURRENT APPLICATION NUMBER: US/09/972,656
; CURRENT FILING DATE: 2001-10-05
; NUMBER OF SEQ ID NOS: 135
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-972-656-7

Query Match 3.3%; Score 36; DB 10; Length 11;
Best Local Similarity 60.0%; Pred. No. 3.3e+03;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 102 GDTGGKSIY 111
|||
Db 2 GDNLGGKSLH 11

RESULT 9

US-09-873-637-9
; Sequence 9, Application US/09873637
; Patent No. US20020061543A1
; GENERAL INFORMATION:
; APPLICANT: Ross, Jeffrey
; TITLE OF INVENTION: THE C-MYC CODING REGION DETERMINANT-BINDING PROTEIN
; TITLE OF INVENTION: (CRD-BP) AND ITS NUCLEIC ACID SEQUENCE
; FILE REFERENCE: 960296.95131
; CURRENT APPLICATION NUMBER: US/09/873,637
; CURRENT FILING DATE: 2001-06-04
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus sequence for SEQ ID NOS:3-8.
US-09-873-637-9

Query Match 3.3%; Score 36; DB 9; Length 13;
Best Local Similarity 63.6%; Pred. No. 4.2e+03;
Matches 7; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 97 GDFTRGDGTGG 107
|||
Db 3 GGFGRGGGRGG 13

RESULT 10

US-09-876-904A-242
; Sequence 242, Application US/09876904A
; Publication No. US20030072794A1
; GENERAL INFORMATION:
; APPLICANT: BOULIKAS, TENI
; TITLE OF INVENTION: ENCAPSULATION OF PLASMID DNA (LIPOGENES TM) AND THERAPEUTIC
; TITLE OF INVENTION: AGENTS WITH NUCLEAR LOCALIZATION SIGNAL/FUSOGENIC PEPTIDE
; TITLE OF INVENTION: CONJUGATES INTO TARGETED LIPOsome COMPLEXES
; FILE REFERENCE: TB-2002.00
; CURRENT APPLICATION NUMBER: US/09/876,904A
; CURRENT FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: US 60/210,925
; PRIOR FILING DATE: 2000-06-09
; NUMBER OF SEQ ID NOS: 629
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 242
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: XPC gene product
US-09-876-904A-242

Query Match 3.3%; Score 36; DB 10; Length 13;
Best Local Similarity 58.8%; Pred. No. 4.2e+03;
Matches 10; Conservative 1; Mismatches 2; Indels 4; Gaps 1;

QY 21 GPSAADEKKKGPKVTVK 37
|||
Db 1 GPA----KKKVAKVTVK 13

RESULT 11

US-10-038-612-168
; Sequence 168, Application US/10038612
; Publication No. US20020160478A1
; GENERAL INFORMATION:

; APPLICANT: Ben-Sasson, Shmuel A.
; TITLE OF INVENTION: Short Peptides Which Selectively
; TITLE OF INVENTION: Modulate the Activity of Protein Kinases
; FILE REFERENCE: 1242.1029-000 (CMCC-679)
; CURRENT APPLICATION NUMBER: US/10/038,612
; CURRENT FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 09/161,094
; PRIOR FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 168
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: MYRISTATE
; LOCATION: (1)...(0)
; NAME/KEY: AMIDATION
; LOCATION: (0)...(13)
; OTHER INFORMATION: TrkB
US-10-038-612-168

Query Match 3.3%; Score 36; DB 13; Length 13;
Best Local Similarity 66.7%; Pred. No. 4.2e+03;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 119 NFKLKHGYP 127
|||: ||
Db 3 NFKLRAHGP 11

RESULT 12

US-10-264-309-118
; Sequence 118, Application US/10264309
; Publication No. US20040022794A1
; GENERAL INFORMATION:
; APPLICANT: DURHAM, L. KATHRYN
; APPLICANT: FRIEDMAN, DAVID L.
; APPLICANT: HERATH, HERATH
; APPLICANT: KIMMEL, LIDA H.
; APPLICANT: PAREKH, RAJESH B.
; APPLICANT: POTTER, DAVID M.
; APPLICANT: ROHLFF, CHRISTIAN
; APPLICANT: SILBER, B. MICHAEL
; APPLICANT: SNYDER, PETER J.
; APPLICANT: SOARES, HOLLY D.
; APPLICANT: STIGER, THOMAS R.
; APPLICANT: SUNDERLAND, P. TREY
; APPLICANT: TOWNSEND, ROBERT R.
; APPLICANT: WHITE, W. FROST
; APPLICANT: WILLIAMS, STEPHEN A.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES, POLYPEPTIDES AND USES THEREFOR,
; TITLE OF INVENTION: INCLUDING DIAGNOSIS AND TREATMENT OF ALZHEIMER'S DISEASE
; FILE REFERENCE: POA-002.01
; CURRENT APPLICATION NUMBER: US/10/264,309
; CURRENT FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/326,708
; PRIOR FILING DATE: 2001-10-03
; NUMBER OF SEQ ID NOS: 491
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 118
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-264-309-118

Query Match 3.2%; Score 35; DB 16; Length 9;
Best Local Similarity 77.8%; Pred. No. 1.2e+06;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 115 FPDENFKLK 123
| |||||
Db 1 FEDENFLK 9

RESULT 13
US-10-356-257-142
; Sequence 142, Application US/10356257
; Publication No. US20040087767A1
; GENERAL INFORMATION:
; APPLICANT: LAZARUS, ROBERT A.
; APPLICANT: MAUN, HENRY R.
; TITLE OF INVENTION: FVIIa Antagonists
; FILE REFERENCE: P1950R1
; CURRENT APPLICATION NUMBER: US/10/356,257
; CURRENT FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: US 60/355,420
; PRIOR FILING DATE: 2002-02-06
; NUMBER OF SEQ ID NOS: 355
; SEQ ID NO 142
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: sequence is synthesized
US-10-356-257-142

Query Match 3.2%; Score 35; DB 16; Length 11;
Best Local Similarity 77.8%; Pred. No. 4.3e+03;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 96 GGDFTRGDG 104
||| |||
Db 2 GGDSTRGYG 10

RESULT 14

US-10-300-694A-66
; Sequence 66, Application US/10300694A
; Publication No. US20030185870A1
; GENERAL INFORMATION:
; APPLICANT: Duke University
; APPLICANT: Grinstaff, Mark W.
; APPLICANT: Kenan, Daniel J.
; APPLICANT: Walsh, Elisabeth B.
; APPLICANT: Middleton, Crystan
; TITLE OF INVENTION: INTERFACIAL BIOMATERIALS
; FILE REFERENCE: 180/143/2
; CURRENT APPLICATION NUMBER: US/10/300,694A
; CURRENT FILING DATE: 2003-05-07
; PRIOR APPLICATION NUMBER: US 60/331,843
; PRIOR FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 117
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 66
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Polycarbonate-binding peptide 66
US-10-300-694A-66

Query Match 3.2%; Score 35; DB 14; Length 13;
Best Local Similarity 41.7%; Pred. No. 5.4e+03;
Matches 5; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 125 YGPGWVSMANAG 136
: |||: |
Db 1 FGHGWLNTLNLG 12

RESULT 15

US-10-247-839-101
; Sequence 101, Application US/10247839
; Publication No. US20040058400A1
; GENERAL INFORMATION:

APPLICANT: Holliger, Kaspar-Philipp
Griffiths, Andrew D
Hoogenboom, Hendricus RJM
Malmqvist, Magnus
Marks, James D
McGuinness, Brian T
Pope, Anthony R
Prospero, Terence D
Winter, Gregory P
TITLE OF INVENTION: Multivalent and Multispecific Binding
proteins, Their Manufacture and Use
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall O'Toole Gerstein Murray and Borun
STREET: 6300 Sears Tower 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/247,839
FILING DATE: 20-Sep-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/146,979
FILING DATE: <Unknown>
APPLICATION NUMBER: US 08/448,418
FILING DATE: 14-MAY-1996
APPLICATION NUMBER: PCT/GB93/02492
FILING DATE: 03-DEC-1993
APPLICATION NUMBER: GB 9225453.1
FILING DATE: 04-DEC-1992
APPLICATION NUMBER: GB 9300816.7
FILING DATE: 16-JAN-1993
APPLICATION NUMBER: EP 93303614.7
FILING DATE: 10-MAY-1993
APPLICATION NUMBER: GB 9319969.3
FILING DATE: 22-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: David W. Clough
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/32651
INFORMATION FOR SEQ ID NO: 101:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide linker
SEQUENCE DESCRIPTION: SEQ ID NO: 101:
US-10-247-839-101
Query Match 3.2%; Score 35; DB 12; Length 14;
Best Local Similarity 50.0%; Pred. No. 6e+03;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;
QY 96 GGDFTRGDGTGGKS 109
Db 1 GGGGGGGGGGGSS 14
RESULT 16
US-09-988-493-293
; Sequence 293, Application US/09988493
; Publication No. US2003006419A1
; GENERAL INFORMATION:
; APPLICANT: Herath, Herath Mudiyansele Athula Chandrasiri
; APPLICANT: O'Hare, Michael John
; APPLICANT: Page, Martin John

APPLICANT: Parekh, Rajesh Bhikhu
APPLICANT: Waterfield, Michael Derek
TITLE OF INVENTION: Proteins, Genes, and Their Use for
TITLE OF INVENTION: Diagnosis and Treatment of Breast Cancer
FILE REFERENCE: 2543-1-024
CURRENT APPLICATION NUMBER: US/09/988,493
CURRENT FILING DATE: 2002-05-21
PRIOR APPLICATION NUMBER: PCT/GB01/01219
PRIOR FILING DATE: 2001-03-20
PRIOR APPLICATION NUMBER: GB 0006695.1
PRIOR FILING DATE: 2000-03-20
PRIOR APPLICATION NUMBER: GB 0007265.2
PRIOR FILING DATE: 2000-02-24
NUMBER OF SEQ ID NOS: 308
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 293
LENGTH: 9
TYPE: PRT
ORGANISM: homo sapien
US-09-988-493-293
Query Match 3.1%; Score 34; DB 12; Length 9;
Best Local Similarity 77.8%; Pred. No. 1.2e+06;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 115 FPDENFKLK 123
Db 1 FEDENFILK 9
RESULT 17
US-10-014-340-209
; Sequence 209, Application US/10014340
; Publication No. US2003006411A1
; GENERAL INFORMATION:
; APPLICANT: Herath, et al
; TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and Uses Therefor, Including
; TITLE OF INVENTION: Diagnosis and Treatment of Alzheimer's Disease
; FILE REFERENCE: 9195-078
; CURRENT APPLICATION NUMBER: US/10/014,340
; CURRENT FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 823
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 209
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-014-340-209
Query Match 3.1%; Score 34; DB 12; Length 9;
Best Local Similarity 77.8%; Pred. No. 1.2e+06;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 115 FPDENFKLK 123
Db 1 FEDENFILK 9
RESULT 18
US-09-995-388-8
; Sequence 8, Application US/09995388
; Publication No. US20020106325A1
; GENERAL INFORMATION:
; APPLICANT: Carpenter, Jr., Alan P.
; TITLE OF INVENTION: SIMULTANEOUS IMAGING OF CARDIAC PERFUSION AND A VITRONECTIN
; TITLE OF INVENTION: RECEPTOR TARGETED IMAGING AGENT
; FILE REFERENCE: BMS-2201
; CURRENT APPLICATION NUMBER: US/09/995,388
; CURRENT FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: US 60/253,324
; PRIOR FILING DATE: 2000-11-27
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn version 3.2


```

; SEQ ID NO 8
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-09-995-388-8

Query Match
Best Local Similarity 3.1%; Score 34; DB 12; Length 11;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 97 GDFTRGD 103
Db 4 GDFKRGD 10

RESULT 19
US-09-995-388-5
; Sequence 5, Application US/09995388
; Publication No. US20020106325A1
; GENERAL INFORMATION:
; APPLICANT: Carpenter, Jr., Alan P.
; TITLE OF INVENTION: SIMULTANEOUS IMAGING OF CARDIAC PERFUSION AND A VITRONECTIN
; TITLE OF INVENTION: RECEPTOR TARGETED IMAGING AGENT
; FILE REFERENCE: BMS-2201
; CURRENT APPLICATION NUMBER: US/09/995,388
; CURRENT FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: US 60/253,324
; PRIOR FILING DATE: 2000-11-27
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-09-995-388-5

Query Match
Best Local Similarity 3.1%; Score 34; DB 12; Length 12;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 97 GDFTRGD 103
Db 5 GDFKRGD 11

RESULT 20
US-10-193-477-146
; Sequence 146, Application US/10193477
; Publication No. US20030195163A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING THREE NOVEL HUMAN CELL SURFACE PROTEINS
; TITLE OF INVENTION: LEUCINE RICH REPEATS AND IMMUNOLOGOBULIN FOLDS, BGS2, 3, AND 4,
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: D0153 NP
; CURRENT APPLICATION NUMBER: US/10/193,477
; CURRENT FILING DATE: 2002-07-11
; PRIOR APPLICATION NUMBER: US 60/304,888
; PRIOR FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: US 60/372,147
; PRIOR FILING DATE: 2002-04-12
; NUMBER OF SEQ ID NOS: 229
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 146
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-193-477-146
```

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Query Match
Best Local Similarity 3.1%; Score 34; DB 14; Length 12;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 14 VFFLLLPGPS 23
Db 3 LFLLLLPGPS 12

RESULT 21
US-10-193-477-168
; Sequence 168, Application US/10193477
; Publication No. US20030195163A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING THREE NOVEL HUMAN CELL SURFACE PROTEINS
; TITLE OF INVENTION: LEUCINE RICH REPEATS AND IMMUNOLOGOBULIN FOLDS, BGS2, 3, AND 4,
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: D0153 NP
; CURRENT APPLICATION NUMBER: US/10/193,477
; CURRENT FILING DATE: 2002-07-11
; PRIOR APPLICATION NUMBER: US 60/304,888
; PRIOR FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: US 60/372,147
; PRIOR FILING DATE: 2002-04-12
; NUMBER OF SEQ ID NOS: 229
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 168
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-193-477-168

Query Match
Best Local Similarity 3.1%; Score 34; DB 14; Length 12;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 14 VFFLLLPGPS 23
Db 3 LFLLLLPGPS 12

RESULT 22
US-10-017-193-8
; Sequence 8, Application US/10017193
; Publication No. US20030113478A1
; GENERAL INFORMATION:
; APPLICANT: Dang, Mai Huong
; APPLICANT: Chiu, Phillip
; TITLE OF INVENTION: Surface Coating Method and Coated Device
; FILE REFERENCE: 52200-8010
; CURRENT APPLICATION NUMBER: US/10/017,193
; CURRENT FILING DATE: 2001-12-12
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: attachment peptide from collagen
US-10-017-193-8

Query Match
Best Local Similarity 3.0%; Score 32.5; DB 14; Length 13;
Matches 7; Conservative 2; Mismatches 0; Indels 1; Gaps 1;

QY 39 YFDLRI-GDE 47
Db 4 YFDRLKGDK 13

RESULT 23
```

US-09-802-077-50
; Sequence 50, Application US/09802077
; Patent No. US20010033842A1
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Method of Treating Allergic Disorders (as amended)
; FILE REFERENCE: P0718P2C2US
; CURRENT APPLICATION NUMBER: US/09/802,077
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: US 08/405,617
; PRIOR FILING DATE: 1995-03-15
; PRIOR APPLICATION NUMBER: US 08/185,899
; PRIOR FILING DATE: 1994-01-26
; PRIOR APPLICATION NUMBER: PCT/US92/06860
; PRIOR FILING DATE: 1992-08-14
; PRIOR APPLICATION NUMBER: US 07/879,495
; PRIOR FILING DATE: 1992-05-07
; PRIOR APPLICATION NUMBER: US 07/744,768
; PRIOR FILING DATE: 1991-08-14
; NUMBER OF SEQ ID NOS: 64
; SEQ ID NO 50
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment
US-09-802-077-50

Query Match 3.0%; Score 32; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.2e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 153 WLDGK 157
Db 4 WLDGK 8

RESULT 24
US-09-802-096-50
; Sequence 50, Application US/09802096
; Patent No. US20010033839A1
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Method of Preventing the Onset of Allergic Disorders (as amended)
; FILE REFERENCE: P0718P2C3US
; CURRENT APPLICATION NUMBER: US/09/802,096
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: US 08/405,617
; PRIOR FILING DATE: 1995-03-15
; PRIOR APPLICATION NUMBER: US 08/185,899
; PRIOR FILING DATE: 1994-01-26
; PRIOR APPLICATION NUMBER: PCT/US92/06860
; PRIOR FILING DATE: 1992-08-14
; PRIOR APPLICATION NUMBER: US 07/879,495
; PRIOR FILING DATE: 1992-05-07
; PRIOR APPLICATION NUMBER: US 07/744,768
; PRIOR FILING DATE: 1991-08-14
; NUMBER OF SEQ ID NOS: 64
; SEQ ID NO 50
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment
US-09-802-096-50

Query Match 3.0%; Score 32; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.2e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 153 WLDGK 157

Db 4 WLDGK 8

RESULT 25
US-09-925-179-50
; Sequence 50, Application US/09925179
; Publication No. US20030044858A1
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P0718P2C1D1C1US
; CURRENT APPLICATION NUMBER: US/09/925,179
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 08/466,163
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: US 08/405,617
; PRIOR FILING DATE: 1995-03-15
; PRIOR APPLICATION NUMBER: US 08/185,899
; PRIOR FILING DATE: 1994-01-26
; PRIOR APPLICATION NUMBER: PCT/US92/06860
; PRIOR FILING DATE: 1992-08-14
; PRIOR APPLICATION NUMBER: US 07/879,495
; PRIOR FILING DATE: 1992-05-07
; PRIOR APPLICATION NUMBER: US 07/744,768
; PRIOR FILING DATE: 1991-08-14
; NUMBER OF SEQ ID NOS: 68
; SEQ ID NO 50
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment
US-09-925-179-50

Query Match 3.0%; Score 32; DB 10; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.2e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 153 WLDGK 157
Db 4 WLDGK 8

RESULT 26
US-10-223-172A-27
; Sequence 27, Application US/10223172A
; Publication No. US20030138444A1
; GENERAL INFORMATION:
; APPLICANT: Myriad Genetics, Inc.
; APPLICANT: Zavitz, Kenton
; APPLICANT: Wettstein, Daniel Albert
; APPLICANT: Morham, Scott
; APPLICANT: Hobden, Adrian
; TITLE OF INVENTION: COMPOSITION AND METHOD FOR TREATING HIV INFECTION
; FILE REFERENCE: 5003.01
; CURRENT APPLICATION NUMBER: US/10/223,172A
; CURRENT FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/313,239
; PRIOR FILING DATE: 2001-08-18
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human immunodeficiency virus
US-10-223-172A-27

Query Match 3.0%; Score 32; DB 14; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 20 PGPSAADEK 28
|||||:
Db 1 PGPSAPPEE 9

RESULT 27
US-10-224-999A-27
; Sequence 27, Application US/10224999A
; Publication No. US20030171318A1
; GENERAL INFORMATION:
; APPLICANT: Myriad Genetics, Inc.
; APPLICANT: Morham, Scott
; APPLICANT: Zavitz, Kenton
; APPLICANT: Hobden, Adrian
; TITLE OF INVENTION: Composition and Method for Treating Viral Infection
; FILE REFERENCE: 5004.01
; CURRENT APPLICATION NUMBER: US/10/224,999A
; CURRENT FILING DATE: 2003-03-03
; PRIOR APPLICATION NUMBER: US 60/313,695
; PRIOR FILING DATE: 2001-08-20
; NUMBER OF SEQ ID NOS: 3484
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Modified HIV Peptide
US-10-224-999A-27

Query Match 3.0%; Score 32; DB 14; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 20 PGPSAADEK 28
|||||:
Db 1 PGPSAPPEE 9

RESULT 28
US-09-802-077-17
; Sequence 17, Application US/09802077
; Patent No. US20010033842A1
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Method of Treating Allergic Disorders (as amended)
; FILE REFERENCE: P0718P2C2US
; CURRENT APPLICATION NUMBER: US/09/802,077
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: US 08/405,617
; PRIOR FILING DATE: 1995-03-15
; PRIOR APPLICATION NUMBER: US 08/185,899
; PRIOR FILING DATE: 1994-01-26
; PRIOR APPLICATION NUMBER: PCT/US92/06860
; PRIOR FILING DATE: 1992-08-14
; PRIOR APPLICATION NUMBER: US 07/879,495
; PRIOR FILING DATE: 1992-05-07
; PRIOR APPLICATION NUMBER: US 07/744,768
; PRIOR FILING DATE: 1991-08-14
; NUMBER OF SEQ ID NOS: 64
; SEQ ID NO 17
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-802-077-17

Query Match 3.0%; Score 32; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 8e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 WLDGK 157
|||||

Db 5 WLDGK 9

RESULT 29
US-09-802-077-46
; Sequence 46, Application US/09802077
; Patent No. US20010033842A1
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Method of Treating Allergic Disorders (as amended)
; FILE REFERENCE: P0718P2C2US
; CURRENT APPLICATION NUMBER: US/09/802,077
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: US 08/405,617
; PRIOR FILING DATE: 1995-03-15
; PRIOR APPLICATION NUMBER: US 08/185,899
; PRIOR FILING DATE: 1994-01-26
; PRIOR APPLICATION NUMBER: PCT/US92/06860
; PRIOR FILING DATE: 1992-08-14
; PRIOR APPLICATION NUMBER: US 07/879,495
; PRIOR FILING DATE: 1992-05-07
; PRIOR APPLICATION NUMBER: US 07/744,768
; PRIOR FILING DATE: 1991-08-14
; NUMBER OF SEQ ID NOS: 64
; SEQ ID NO 46
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment
US-09-802-077-46

Query Match 3.0%; Score 32; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 8e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 WLDGK 157
|||||

Db 5 WLDGK 9

RESULT 30
US-09-802-096-17
; Sequence 17, Application US/09802096
; Patent No. US20010038839A1
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Method of Preventing the Onset of Allergic Disorders (as amended)
; FILE REFERENCE: P0718P2C3US
; CURRENT APPLICATION NUMBER: US/09/802,096
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: US 08/405,617
; PRIOR FILING DATE: 1995-03-15
; PRIOR APPLICATION NUMBER: US 08/185,899
; PRIOR FILING DATE: 1994-01-26
; PRIOR APPLICATION NUMBER: PCT/US92/06860
; PRIOR FILING DATE: 1992-08-14
; PRIOR APPLICATION NUMBER: US 07/879,495
; PRIOR FILING DATE: 1992-05-07
; PRIOR APPLICATION NUMBER: US 07/744,768
; PRIOR FILING DATE: 1991-08-14
; NUMBER OF SEQ ID NOS: 64
; SEQ ID NO 17
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-802-096-17

Query Match 3.0%; Score 32; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 8e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 WLDGK 157
 Db 5 WLDGK 9

RESULT 31
 US-09-802-096-46
 ; Sequence 46, Application US/09802096
 ; Patent No. US20010038839A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Jardieu, Paula M.
 ; APPLICANT: Presta, Leonard G.
 ; TITLE OF INVENTION: Method of Preventing the Onset of Allergic Disorders (as amended)
 ; FILE REFERENCE: P0718P2C3US
 ; CURRENT APPLICATION NUMBER: US/09/802,096
 ; CURRENT FILING DATE: 2001-03-08
 ; PRIOR APPLICATION NUMBER: US 08/405,617
 ; PRIOR FILING DATE: 1995-03-15
 ; PRIOR APPLICATION NUMBER: US 08/185,899
 ; PRIOR FILING DATE: 1994-01-26
 ; PRIOR APPLICATION NUMBER: PCT/US92/06860
 ; PRIOR FILING DATE: 1992-08-14
 ; PRIOR APPLICATION NUMBER: US 07/879,495
 ; PRIOR FILING DATE: 1992-05-07
 ; PRIOR APPLICATION NUMBER: US 07/744,768
 ; PRIOR FILING DATE: 1991-08-14
 ; NUMBER OF SEQ ID NOS: 64
 ; SEQ ID NO 46
 ; LENGTH: 10
 ; TYPE: PRT
 ; ORGANISM: Artificial sequence
 ; FEATURE:
 ; OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment
 US-09-802-096-46

Query Match 3.0%; Score 32; DB 9; Length 10;
 Best Local Similarity 100.0%; Pred. No. 8e+03;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 WLDGK 157
 Db 5 WLDGK 9

RESULT 32
 US-09-925-179-17
 ; Sequence 17, Application US/09925179
 ; Publication No. US20030044858A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Jardieu, Paula M.
 ; APPLICANT: Presta, Leonard G.
 ; TITLE OF INVENTION: Anti-IgE Antibodies (as amended)
 ; FILE REFERENCE: P0718P2C1D1C1US
 ; CURRENT APPLICATION NUMBER: US/09/925,179
 ; CURRENT FILING DATE: 2001-08-08
 ; PRIOR APPLICATION NUMBER: US 08/466,163
 ; PRIOR FILING DATE: 1995-06-06
 ; PRIOR APPLICATION NUMBER: US 08/405,617
 ; PRIOR FILING DATE: 1995-03-15
 ; PRIOR APPLICATION NUMBER: US 08/185,899
 ; PRIOR FILING DATE: 1994-01-26
 ; PRIOR APPLICATION NUMBER: PCT/US92/06860
 ; PRIOR FILING DATE: 1992-08-14
 ; PRIOR APPLICATION NUMBER: US 07/879,495
 ; PRIOR FILING DATE: 1992-05-07
 ; PRIOR APPLICATION NUMBER: US 07/744,768
 ; PRIOR FILING DATE: 1991-08-14
 ; NUMBER OF SEQ ID NOS: 68
 ; SEQ ID NO 17
 ; LENGTH: 10
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens

US-09-925-179-17
 Query Match 3.0%; Score 32; DB 10; Length 10;
 Best Local Similarity 100.0%; Pred. No. 8e+03;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 WLDGK 157
 Db 5 WLDGK 9

RESULT 33
 US-09-925-179-46
 ; Sequence 46, Application US/09925179
 ; Publication No. US20030044858A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Jardieu, Paula M.
 ; APPLICANT: Presta, Leonard G.
 ; TITLE OF INVENTION: Anti-IgE Antibodies (as amended)
 ; FILE REFERENCE: P0718P2C1D1C1US
 ; CURRENT APPLICATION NUMBER: US/09/925,179
 ; CURRENT FILING DATE: 2001-08-08
 ; PRIOR APPLICATION NUMBER: US 08/466,163
 ; PRIOR FILING DATE: 1995-06-06
 ; PRIOR APPLICATION NUMBER: US 08/405,617
 ; PRIOR FILING DATE: 1995-03-15
 ; PRIOR APPLICATION NUMBER: US 08/185,899
 ; PRIOR FILING DATE: 1994-01-26
 ; PRIOR APPLICATION NUMBER: PCT/US92/06860
 ; PRIOR FILING DATE: 1992-08-14
 ; PRIOR APPLICATION NUMBER: US 07/879,495
 ; PRIOR FILING DATE: 1992-05-07
 ; PRIOR APPLICATION NUMBER: US 07/744,768
 ; PRIOR FILING DATE: 1991-08-14
 ; NUMBER OF SEQ ID NOS: 68
 ; SEQ ID NO 46
 ; LENGTH: 10
 ; TYPE: PRT
 ; ORGANISM: Artificial sequence
 ; FEATURE:
 ; OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment
 US-09-925-179-46

Query Match 3.0%; Score 32; DB 10; Length 10;
 Best Local Similarity 100.0%; Pred. No. 8e+03;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 WLDGK 157
 Db 5 WLDGK 9

RESULT 34
 US-09-755-630A-33
 ; Sequence 33, Application US/09755630A
 ; Publication No. US20030194399A1
 ; GENERAL INFORMATION:
 ; APPLICANT: ALIBHAI, MURTAZA F.
 ; APPLICANT: ASTWOOD, JAMES D.
 ; APPLICANT: SAMPSON, HUGH A.
 ; APPLICANT: McWHERTER, CHARLES A.
 ; TITLE OF INVENTION: PREPARATION OF DEALLERGENIZED PROTEINS AND PERMUTEINS
 ; FILE REFERENCE: 11899.0217.NPUS00 (MOBT217)
 ; CURRENT APPLICATION NUMBER: US/09/755,630A
 ; CURRENT FILING DATE: 2001-01-05
 ; PRIOR APPLICATION NUMBER: US 60/174,669
 ; PRIOR FILING DATE: 2000-01-06
 ; NUMBER OF SEQ ID NOS: 293
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 33
 ; LENGTH: 10
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence

```
;
; FEATURE:
; OTHER INFORMATION: Synthetic polypeptide
US-09-755-630A-33

Query Match          3.0%; Score 32; DB 10; Length 10;
Best Local Similarity 75.0%; Pred. No. 8e+03;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      201 KPFAIAKE 208
Db      3 RPFAAAKE 10

RESULT 35
US-10-223-172A-33
; Sequence 33, Application US/10223172A
; Publication No. US2003013844A1
; GENERAL INFORMATION:
; APPLICANT: Myriad Genetics, Inc.
; APPLICANT: Zavitz, Kenton
; APPLICANT: Wettstein, Daniel Albert
; APPLICANT: Morham, Scott
; APPLICANT: Hobden, Adrian
; TITLE OF INVENTION: COMPOSITION AND METHOD FOR TREATING HIV INFECTION
; FILE REFERENCE: 5003.01
; CURRENT APPLICATION NUMBER: US/10/223,172A
; CURRENT FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/313,239
; PRIOR FILING DATE: 2001-08-18
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 33
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human immunodeficiency virus
US-10-223-172A-33

Query Match          3.0%; Score 32; DB 14; Length 10;
Best Local Similarity 66.7%; Pred. No. 8e+03;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      20 PGPSAADEK 28
Db      2 PGPSAPPEE 10

RESULT 36
US-10-224-999A-33
; Sequence 33, Application US/10224999A
; Publication No. US2003017131A1
; GENERAL INFORMATION:
; APPLICANT: Myriad Genetics, Inc.
; APPLICANT: Morham, Scott
; APPLICANT: Zavitz, Kenton
; APPLICANT: Hobden, Adrian
; TITLE OF INVENTION: Composition and Method for Treating Viral Infection
; FILE REFERENCE: 5004.01
; CURRENT APPLICATION NUMBER: US/10/224,999A
; CURRENT FILING DATE: 2003-03-03
; PRIOR APPLICATION NUMBER: US 60/313,695
; PRIOR FILING DATE: 2001-08-20
; NUMBER OF SEQ ID NOS: 3484
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 33
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Modified HIV Peptide
US-10-224-999A-33

Query Match          3.0%; Score 32; DB 14; Length 10;
Best Local Similarity 66.7%; Pred. No. 8e+03;
```

```
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      20 PGPSAADEK 28
Db      2 PGPSAPPEE 10

RESULT 37
US-09-995-388-9
; Sequence 9, Application US/09995388
; Publication No. US20020106325A1
; GENERAL INFORMATION:
; APPLICANT: Carpenter, Jr., Alan P.
; TITLE OF INVENTION: SIMULTANEOUS IMAGING OF CARDIAC PERFUSION AND A VITRONECTIN
; TITLE OF INVENTION: RECEPTOR TARGETED IMAGING AGENT
; FILE REFERENCE: BMS-2201
; CURRENT APPLICATION NUMBER: US/09/995,388
; CURRENT FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: US 60/253,324
; PRIOR FILING DATE: 2000-11-27
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 9
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-09-995-388-9

Query Match          3.0%; Score 32; DB 12; Length 11;
Best Local Similarity 71.4%; Pred. No. 9.1e+03;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      97 GDFTRGD 103
Db      5 GDYVRGD 11

RESULT 38
US-10-601-837-103
; Sequence 103, Application US/10601837
; Publication No. US20040053309A1
; GENERAL INFORMATION:
; APPLICANT: Holt, Gordon D
; APPLICANT: Kelly, Michael D
; APPLICANT: Kennedy, Sandra J
; APPLICANT: Moyses, Christopher
; TITLE OF INVENTION: Proteins, Genes and Their Use for Diagnosis and Treatment of Kidn
; TITLE OF INVENTION: Response
; FILE REFERENCE: 2543-1-030
; CURRENT APPLICATION NUMBER: US/10/601,837
; CURRENT FILING DATE: 2003-06-23
; PRIOR APPLICATION NUMBER: PCT/GB01/05777
; PRIOR FILING DATE: 2001-12-24
; PRIOR APPLICATION NUMBER: US 60/260392
; PRIOR FILING DATE: 2000-12-29
; NUMBER OF SEQ ID NOS: 272
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 103
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Ratus No. US20040053309Alvegicus
US-10-601-837-103

Query Match          3.0%; Score 32; DB 12; Length 12;
Best Local Similarity 60.0%; Pred. No. 1e+04;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      96 GGDFTRGDGT 105
Db      2 GGPFCAGDAT 11
```

RESULT 39
US-10-224-999A-2922
; Sequence 2922, Application US/10224999A
; Publication No. US20030171318A1
; GENERAL INFORMATION:
; APPLICANT: Myriad Genetics, Inc.
; APPLICANT: Morham, Scott
; APPLICANT: Zavitz, Kenton
; APPLICANT: Hobden, Adrian
; TITLE OF INVENTION: Composition and Method for Treating Viral Infection
; FILE REFERENCE: 5004.01
; CURRENT APPLICATION NUMBER: US/10/224,999A
; CURRENT FILING DATE: 2003-03-03
; PRIOR APPLICATION NUMBER: US 60/313,695
; PRIOR FILING DATE: 2001-08-20
; NUMBER OF SEQ ID NOS: 3484
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2922
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Hepatitis G virus
US-10-224-999A-2922

Query Match 3.0%; Score 32; DB 14; Length 12;
Best Local Similarity 50.0%; Pred. No. 1e+04;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 185 PLKDVIIADCGK 196
| | | | |
Db 1 PTAPVVRRCGK 12

RESULT 40
US-09-991-225-19
; Sequence 19, Application US/09991225
; Publication No. US20030153063A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRBMY11, EXPRESSED H
; TITLE OF INVENTION: HEART AND VARIANTS THEREOF
; FILE REFERENCE: D0075.NP
; CURRENT APPLICATION NUMBER: US/09/991,225
; CURRENT FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/249,613
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/257,611
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/305,818
; PRIOR FILING DATE: 2001-07-16
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 19
; LENGTH: 13
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-991-225-19

Query Match 3.0%; Score 32; DB 10; Length 13;
Best Local Similarity 33.3%; Pred. No. 1.2e+04;
Matches 3; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 146 ITTVKTAWL 154
:|:::|:
Db 4 VTSIRSAWI 12

RESULT 41
US-09-991-225-38
; Sequence 38, Application US/09991225
; Publication No. US20030153063A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company

; TITLE OF INVENTION: A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRBMY11, EXPRESSED HIC
; TITLE OF INVENTION: HEART AND VARIANTS THEREOF
; FILE REFERENCE: D0075.NP
; CURRENT APPLICATION NUMBER: US/09/991,225
; CURRENT FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/249,613
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/257,611
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/305,818
; PRIOR FILING DATE: 2001-07-16
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 38
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-991-225-38

Query Match 3.0%; Score 32; DB 10; Length 13;
Best Local Similarity 33.3%; Pred. No. 1.2e+04;
Matches 3; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 146 ITTVKTAWL 154
:|:::|:
Db 4 VTSIRSAWI 12

RESULT 42
US-10-369-405-19
; Sequence 19, Application US/10369405
; Publication No. US20030224400A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRBMY11, AND VARIANTS
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: D0075A CIP
; CURRENT APPLICATION NUMBER: US/10/369,405
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: U.S. 60/249,613
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: U.S. 09/991,225
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: U.S. 60/257,611
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: U.S. 60/305,818
; PRIOR FILING DATE: 2001-07-16
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 19
; LENGTH: 13
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-369-405-19

Query Match 3.0%; Score 32; DB 12; Length 13;
Best Local Similarity 33.3%; Pred. No. 1.2e+04;
Matches 3; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 146 ITTVKTAWL 154
:|:::|:
Db 4 VTSIRSAWI 12

RESULT 43
US-10-369-405-38
; Sequence 38, Application US/10369405
; Publication No. US20030224400A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRBMY11, AND VARIANTS
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: D0075A CIP

; CURRENT APPLICATION NUMBER: US/10/369,405
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: U.S. 60/249,613
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: U.S. 09/991,225
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: U.S. 60/257,611
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: U.S. 60/305,818
; PRIOR FILING DATE: 2001-07-16
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 38
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-369-405-38

Query Match 3.0%; Score 32; DB 12; Length 13;
Best Local Similarity 33.3%; Pred. No. 1.2e+04;
Matches 3; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 146 ITTVKTAWL 154
Db 4 VTSIRSAWI 12

RESULT 44
US-10-224-999A-2931
; Sequence 2931, Application US/10224999A
; Publication No. US20030171318A1
; GENERAL INFORMATION:
; APPLICANT: Myriad Genetics, Inc.
; APPLICANT: Morham, Scott
; APPLICANT: Zavitz, Kenton
; APPLICANT: Hobden, Adrian
; TITLE OF INVENTION: Composition and Method for Treating Viral Infection
; FILE REFERENCE: 5004.01
; CURRENT APPLICATION NUMBER: US/10/224,999A
; CURRENT FILING DATE: 2003-03-03
; PRIOR APPLICATION NUMBER: US 60/313,695
; PRIOR FILING DATE: 2001-08-20
; NUMBER OF SEQ ID NOS: 3484
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2931
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Hepatitis G virus
US-10-224-999A-2931

Query Match 3.0%; Score 32; DB 14; Length 13;
Best Local Similarity 50.0%; Pred. No. 1.2e+04;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 185 PLKDVIIADCGK 196
Db 2 PTAPVVIRRCGK 13

RESULT 45
US-10-224-999A-2932
; Sequence 2932, Application US/10224999A
; Publication No. US20030171318A1
; GENERAL INFORMATION:
; APPLICANT: Myriad Genetics, Inc.
; APPLICANT: Morham, Scott
; APPLICANT: Zavitz, Kenton
; APPLICANT: Hobden, Adrian
; TITLE OF INVENTION: Composition and Method for Treating Viral Infection
; FILE REFERENCE: 5004.01
; CURRENT APPLICATION NUMBER: US/10/224,999A
; CURRENT FILING DATE: 2003-03-03
; PRIOR APPLICATION NUMBER: US 60/313,695

; PRIOR FILING DATE: 2001-08-20
; NUMBER OF SEQ ID NOS: 3484
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2932
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Hepatitis G virus
US-10-224-999A-2932

Query Match 3.0%; Score 32; DB 14; Length 13;
Best Local Similarity 50.0%; Pred. No. 1.2e+04;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 185 PLKDVIIADCGK 196
Db 1 PTAPVVIRRCGK 12

Search completed: August 30, 2004, 11:05:02
Job time : 255.378 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 30, 2004, 10:40:59 ; Search time 82.2162 Seconds
(without alignments)
130.609 Million cell updates/sec

Title: US-09-720-469A-44
Perfect score: 1083
Sequence: 1 MKVLLAAALAGSVFFLLLP.....VIIADCGKIEVEKFFAIAKE 208

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 78885

Minimum DB seq length: 8
Maximum DB seq length: 14

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
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4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	38	3.5	9	2	US-08-658-639-10
2	38	3.5	9	3	US-08-944-604-10
3	37	3.4	12	2	US-08-556-597-40
4	37	3.4	14	5	PCT-US93-06751-120
5	36	3.3	13	3	US-09-261-855-9
6	35	3.2	9	1	US-07-963-324-2
7	35	3.2	14	2	US-08-448-418-101
8	35	3.2	14	4	US-09-146-979-101
9	33.5	3.1	12	2	US-08-973-563A-25
10	33.5	3.1	12	2	US-08-973-559-25
11	33.5	3.1	12	3	US-08-993-235-5
12	33.5	3.1	12	4	US-08-993-235-5
13	33	3.0	8	1	US-08-482-880-23
14	33	3.0	8	2	US-08-273-274-23
15	33	3.0	8	2	US-08-475-041-23
16	33	3.0	8	2	US-08-484-773-23
17	33	3.0	8	2	US-08-361-864-27
18	33	3.0	9	2	US-08-335-832-23
19	33	3.0	9	2	US-08-753-781-36
20	33	3.0	9	3	US-09-141-127-19
21	33	3.0	10	2	US-08-658-639-8
22	33	3.0	10	3	US-08-944-604-8
23	33	3.0	10	4	US-09-269-991B-10
24	33	3.0	14	2	US-08-656-906-26
25	33	3.0	14	3	US-09-217-847-26
26	32.5	3.0	12	2	US-08-973-563A-27
27	32.5	3.0	12	2	US-08-973-559-27

28	32.5	3.0	12	3	US-08-993-235-7	Sequence 7, Appli
29	32.5	3.0	12	4	US-08-993-235-7	Sequence 7, Appli
30	32.5	3.0	13	3	US-08-394-748A-4	Sequence 4, Appli
31	32.5	3.0	13	3	US-08-916-913A-7	Sequence 7, Appli
32	32.5	3.0	13	4	US-09-591-564-7	Sequence 7, Appli
33	32.5	3.0	13	5	PCT-US95-02478-4	Sequence 4, Appli
34	32	3.0	8	1	US-08-271-830-56	Sequence 56, Appl
35	32	3.0	8	2	US-08-416-870C-15	Sequence 15, Appl
36	32	3.0	9	2	US-08-232-539D-32	Sequence 32, Appl
37	32	3.0	9	3	US-08-466-151-50	Sequence 50, Appl
38	32	3.0	9	4	US-08-466-163B-50	Sequence 50, Appl
39	32	3.0	9	4	US-09-802-096-50	Sequence 50, Appl
40	32	3.0	10	2	US-08-464-025A-9	Sequence 9, Appli
41	32	3.0	10	3	US-08-466-151-17	Sequence 17, Appl
42	32	3.0	10	3	US-08-466-151-46	Sequence 46, Appl
43	32	3.0	10	4	US-08-466-163B-17	Sequence 17, Appl
44	32	3.0	10	4	US-08-466-163B-46	Sequence 46, Appl
45	32	3.0	10	4	US-09-755-630B-33	Sequence 33, Appl

ALIGNMENTS

RESULT 1
US-08-658-639-10
; Sequence 10, Application US/08658639
; Patent No. 5914238
; GENERAL INFORMATION:
; APPLICANT: KEESSE, SUSAN
; APPLICANT: OBAR, ROBERT
; APPLICANT: WU, YING-JYE
; TITLE OF INVENTION: MATERIALS AND METHODS FOR DETECTION OF
; TITLE OF INVENTION: BREAST CANCER
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Testa, Hurwitz & Thibault
; STREET: 125 High St.
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/658,639
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: MEYERS, THOMAS C
; REGISTRATION NUMBER: 36,989
; REFERENCE/DOCKET NUMBER: MTP-021 (8395/24)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 248-7000
; TELEFAX: (617) 248-7100
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-658-639-10

Query Match 3.5%; Score 38; DB 2; Length 9;
Best Local Similarity 87.5%; Pred. No. 3e+05;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 189 VIIADCGK 196

Db 1 VIIADCGE 8

RESULT 2
US-08-944-604-10
; Sequence 10, Application US/08944604
; Patent No. 6218131
; GENERAL INFORMATION:
; APPLICANT: KEESEE, SUSAN
; APPLICANT: OBAR, ROBERT
; APPLICANT: WU, YING-JYE
; TITLE OF INVENTION: MATERIALS AND METHODS FOR DETECTION OF
; BREAST CANCER
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Testa, Hurwitz & Thibault
; STREET: 125 High St.
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; APPLICATION NUMBER: US/08/944,604
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MEYERS, THOMAS C
; REGISTRATION NUMBER: 36,989
; REFERENCE/DOCKET NUMBER: MTP-021 (8395/24)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 248-7000
; TELEFAX: (617) 248-7100
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-944-604-10

Query Match 3.5%; Score 38; DB 3; Length 9;
Best Local Similarity 87.5%; Pred. No. 3e+05;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 189 VIIADCGK 196
Db 1 VIIADCGE 8

RESULT 3
US-08-556-597-40
; Sequence 40, Application US/08556597
; Patent No. 5877155
; GENERAL INFORMATION:
; APPLICANT: Miller, Jonathan L.
; APPLICANT: Lyle, Vicki A.
; TITLE OF INVENTION: MIMOTOPES AND ANTI-MIMOTOPES OF
; HUMAN PLATELET GLYCOPROTEIN Ib/IX
; NUMBER OF SEQUENCES: 173
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: USA
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/556,597
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/406,330
; FILING DATE: 17-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Timian, Susan J.
; REGISTRATION NUMBER: 34,103
; REFERENCE/DOCKET NUMBER: 20884/101
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1636
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-556-597-40

Query Match 3.4%; Score 37; DB 2; Length 12;
Best Local Similarity 66.7%; Pred. No. 8.7e+02;
Matches 8; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 156 GKVVVFGKVLG 167
Db 1 GLAVTFGSVLG 12

RESULT 4
PCT-US93-06751-120
; Sequence 120, Application PC/TUS9306751
; GENERAL INFORMATION:
; APPLICANT: P. Keller, A. J. Conley, A.R. Shaw, B.A. Arnold
; TITLE OF INVENTION: Immunological Conjugates of OMPC and
; HIV-Specific Selected Principal Neutralization GXG Epitopes
; NUMBER OF SEQUENCES: 146
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06751
; FILING DATE: 19930719
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Meredith, Roy D.
; REGISTRATION NUMBER: 30,777
; REFERENCE/DOCKET NUMBER: 18614
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908) 594-4678
; TELEFAX: (908) 594-4720
; TELEX: 138825
; INFORMATION FOR SEQ ID NO: 120:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear

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; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; IMMEDIATE SOURCE: Random Epitope Library Beta
PCT-US93-06751-120

Query Match      3.4%; Score 37; DB 5; Length 14;
Best Local Similarity 55.6%; Pred. No. 1.1e+03;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      120 FKLKHYGPG 128
Db       3 YRAAHYGP 11

RESULT 5
US-09-261-855-9
; Sequence 9, Application US/09261855A
; Patent No. 6255055
; GENERAL INFORMATION:
; APPLICANT: Ross, Jeffrey
; TITLE OF INVENTION: THE C-MYC CODING REGION DETERMINANT-BINDING PROTEIN
; TITLE OF INVENTION: (CRD-BP) AND ITS NUCLEIC ACID SEQUENCE
; FILE REFERENCE: 960296.95131
; CURRENT APPLICATION NUMBER: US/09/261,855A
; CURRENT FILING DATE: 1999-03-03
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus sequence for SEQ ID NOS:3-8.
US-09-261-855-9

Query Match      3.3%; Score 36; DB 3; Length 13;
Best Local Similarity 63.6%; Pred. No. 1.3e+03;
Matches 7; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      97 GDFTRGDGTGG 107
Db       3 GGFGRGGGRGG 13

RESULT 6
US-07-963-324-2
; Sequence 2, Application US/07963324
; Patent No. 5274122
; GENERAL INFORMATION:
; APPLICANT: Marburg, Stephen
; APPLICANT: Leanza, William J
; APPLICANT: Tolman, Richard L
; TITLE OF INVENTION: Acidic Derivatives of Homocysteine
; TITLE OF INVENTION: Thiolactone
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07065
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/963,324
; FILING DATE: 19921015
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
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; NAME: Bencen, Gerard H
; REGISTRATION NUMBER: 35,746
; REFERENCE/DOCKET NUMBER: 18787
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908)594-3901
; TELEFAX: (908)594-4720
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: both
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 1
; OTHER INFORMATION: /label= Nle
; OTHER INFORMATION: /note= "norleucine"
; FEATURE:
; NAME/KEY: Cross-links
; LOCATION: 2..9
; OTHER INFORMATION: /label= cycle
; OTHER INFORMATION: /note= "amide bond through Lys epsilon amino"
US-07-963-324-2

Query Match      3.2%; Score 35; DB 1; Length 9;
Best Local Similarity 85.7%; Pred. No. 3e+05;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      122 LKHYGPG 128
Db       1 LKHIGPG 7

RESULT 7
US-08-448-418-101
; Sequence 101, Application US/08448418
; Patent No. 5837242
; GENERAL INFORMATION:
; APPLICANT: Holliger, Kaspar-Philipp
; APPLICANT: Griffiths, Andrew D
; APPLICANT: Hoogenboom, Hendricus RJM
; APPLICANT: Malmqvist, Magnus
; APPLICANT: Marks, James D
; APPLICANT: McGuinness, Brian T
; APPLICANT: Pope, Anthony R
; APPLICANT: Prospero, Terence D
; APPLICANT: Winter, Gregory P
; TITLE OF INVENTION: Multivalent and Multispecific Binding
; TITLE OF INVENTION: Proteins, Their Manufacture and Use
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall O'Toole Gerstein Murray and Borun
; STREET: 6300 Sears Tower 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/448,418
; FILING DATE: 14-MAY-1996
; CLASSIFICATION: 435
; CLASSIFICATION: C12N 15/62, 15/70, C07K 1/00
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB93/02492
; FILING DATE: 03-DEC-1993
; PRIOR APPLICATION DATA:
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APPLICATION NUMBER: GB 9225453.1
FILING DATE: 04-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9300816.7
FILING DATE: 16-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 93303614.7
FILING DATE: 10-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9319969.3
FILING DATE: 22-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: David W. Clough
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/32651
INFORMATION FOR SEQ ID NO: 101:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide linker
US-08-448-418-101

Query Match 3.2%; Score 35; DB 2; Length 14;
Best Local Similarity 50.0%; Pred. No. 1.8e+03;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 96 GGDFTRGDGTGGKS 109
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Db 1 GGGGGGGGGSS 14

RESULT 8

US-09-146-979-101
Sequence 101, Application US/09146979
Patent No. 6492123
GENERAL INFORMATION:
APPLICANT: Holliger, Kaspar-Philipp
APPLICANT: Griffiths, Andrew D
APPLICANT: Hoogenboom, Hendricus RJM
APPLICANT: Malmqvist, Magnus
APPLICANT: Marks, James D
APPLICANT: McGuinness, Brian T
APPLICANT: Pope, Anthony R
APPLICANT: Prospero, Terence D
APPLICANT: Winter, Gregory P
TITLE OF INVENTION: Multivalent and Multispecific Binding
TITLE OF INVENTION: Proteins, Their Manufacture and Use
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall O'Toole Gerstein Murray and Borun
STREET: 6300 Sears Tower 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/146,979
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/448,418
FILING DATE: 14-MAY-1996
APPLICATION NUMBER: PCT/GB93/02492
FILING DATE: 03-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9225453.1
FILING DATE: 04-DEC-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9300816.7
FILING DATE: 16-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 93303614.7
FILING DATE: 10-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9319969.3
FILING DATE: 22-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: David W. Clough
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/32651
INFORMATION FOR SEQ ID NO: 101:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide linker
US-09-146-979-101

Query Match 3.2%; Score 35; DB 4; Length 14;
Best Local Similarity 50.0%; Pred. No. 1.8e+03;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 96 GGDFTRGDGTGGKS 109
|| : | : ||
Db 1 GGGGGGGGGSS 14

RESULT 9

US-08-973-563A-25
Sequence 25, Application US/08973563A
Patent No. 5885965
GENERAL INFORMATION:
APPLICANT: Oppenheim, Frank G.
APPLICANT: Xu, Tao
APPLICANT: Spacciapoli, Peter
APPLICANT: Roberts, F. D.
APPLICANT: Friden, Philip M.
TITLE OF INVENTION: Anti-Fungal D-Amino Acid Histatin-Based
TITLE OF INVENTION: Peptides
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: MA
COUNTRY: US
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/973,563A
FILING DATE: 07-JUN-1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,273
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: PER95-02A2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 781-861-6240
TELEFAX: 781-861-9540
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid

STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Region
LOCATION: 1..12
OTHER INFORMATION: /note= "At least one amino acid
must have a D configuration."
US-08-973-563A-25

Query Match 3.1%; Score 33.5; DB 2; Length 12;
Best Local Similarity 58.3%; Pred. No. 2.1e+03;
Matches 7; Conservative 2; Mismatches 2; Indels 1; Gaps 1;

QY 75 EKGFGYKNSKFH 86
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Db 2 KRHFGYKR-KFH 12

RESULT 10
US-08-973-559-25
; Sequence 25, Application US/08973559
; Patent No. 5912230
; GENERAL INFORMATION:
; APPLICANT: OPPENHEIM, FRANK G.
; APPLICANT: XU, TAO
; APPLICANT: ROBERTS, F. D.
; APPLICANT: SPACCIAPOLI, PETER
; APPLICANT: FRIDEN, PHILIP M.
; TITLE OF INVENTION: Anti-Fungal and Anti-Bacterial
; TITLE OF INVENTION: Histatin-Based Peptides
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: US
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/973,559
; FILING DATE: 07-JUN-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/481,888
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: PER95-01A2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 781-861-6240
; TELEFAX: 781-861-9540
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-973-559-25

Query Match 3.1%; Score 33.5; DB 2; Length 12;
Best Local Similarity 58.3%; Pred. No. 2.1e+03;
Matches 7; Conservative 2; Mismatches 2; Indels 1; Gaps 1;

QY 75 EKGFGYKNSKFH 86
:: |||| ||||

Db 2 KRHFGYKR-KFH 12
RESULT 11
US-08-993-235-5
; Sequence 5, Application US/08993235
; Patent No. 6084064
; GENERAL INFORMATION:
; APPLICANT: OPPENHEIM, FRANK G.
; APPLICANT: ROBERTS, F. DONALD
; APPLICANT: XU, TAO
; APPLICANT: SPACCIAPOLI, PETER
; TITLE OF INVENTION: ANTIFUNGAL AND ANTIBACTERIAL PEPTIDES
; FILE REFERENCE: 50032/002001
; CURRENT APPLICATION NUMBER: US/08/993,235
; CURRENT FILING DATE: 1997-12-18
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-993-235-5

Query Match 3.1%; Score 33.5; DB 3; Length 12;
Best Local Similarity 58.3%; Pred. No. 2.1e+03;
Matches 7; Conservative 2; Mismatches 2; Indels 1; Gaps 1;

QY 75 EKGFGYKNSKFH 86
:: |||| ||||
Db 2 KRHFGYKR-KFH 12

RESULT 12
US-08-993-235-5
; Sequence 5, Application US/08993235
; Patent No. 6531573
; GENERAL INFORMATION:
; APPLICANT: OPPENHEIM, FRANK G.
; APPLICANT: ROBERTS, F. DONALD
; APPLICANT: XU, TAO
; APPLICANT: SPACCIAPOLI, PETER
; TITLE OF INVENTION: ANTIFUNGAL AND ANTIBACTERIAL PEPTIDES
; FILE REFERENCE: 50032/002001
; CURRENT APPLICATION NUMBER: US/08/993,235
; CURRENT FILING DATE: 1997-12-18
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-993-235-5

Query Match 3.1%; Score 33.5; DB 4; Length 12;
Best Local Similarity 58.3%; Pred. No. 2.1e+03;
Matches 7; Conservative 2; Mismatches 2; Indels 1; Gaps 1;

QY 75 EKGFGYKNSKFH 86
:: |||| ||||
Db 2 KRHFGYKR-KFH 12

RESULT 13
US-08-482-880-23
; Sequence 23, Application US/08482880
; Patent No. 5736122
; GENERAL INFORMATION:
; APPLICANT: Dean, Richard T
; APPLICANT: Lister-James, John
; TITLE OF INVENTION: Technetium-99m Labeled Peptides for
; TITLE OF INVENTION: Thrombus Imaging
; NUMBER OF SEQUENCES: 33

;/ CORRESPONDENCE ADDRESS:
;/ ADDRESSEE: Banner & Allegretti, Ltd.
;/ STREET: 10 South Wacker Drive Suite 3000
;/ CITY: Chicago
;/ STATE: Illinois
;/ COUNTRY: USA
;/ ZIP: 60606
;/ COMPUTER READABLE FORM:
;/ MEDIUM TYPE: Floppy disk
;/ COMPUTER: IBM PC compatible
;/ OPERATING SYSTEM: PC-DOS/MS-DOS
;/ SOFTWARE: PatentIn Release #1.0, Version #1.25
;/ CURRENT APPLICATION DATA:
;/ APPLICATION NUMBER: US/08/482,880
;/ FILING DATE: 07-JUN-1995
;/ CLASSIFICATION: 424
;/ ATTORNEY/AGENT INFORMATION:
;/ NAME: No. 5736122nan, Kevin E
;/ REGISTRATION NUMBER: 35,303
;/ REFERENCE/DOCKET NUMBER: 92,216-L
;/ TELECOMMUNICATION INFORMATION:
;/ TELEPHONE: 312-715-1000
;/ TELEFAX: 312-715-1234
;/ TELEX: 910-221-5317
;/ INFORMATION FOR SEQ ID NO: 23:
;/ SEQUENCE CHARACTERISTICS:
;/ LENGTH: 8 amino acids
;/ TYPE: amino acid
;/ TOPOLOGY: linear
;/ MOLECULE TYPE: peptide
;/ US-08-482-880-23

Query Match 3.0%; Score 33; DB 1; Length 8;
Best Local Similarity 85.7%; Pred. No. 3e+05;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 101 RGDGTGG 107
Db 2 RGDGGGG 8

RESULT 14
US-08-273-274-23
;/ Sequence 23, Application US/08273274
;/ Patent No. 5849260
;/ GENERAL INFORMATION:
;/ APPLICANT: Dean, Richard T
;/ APPLICANT: Lister-James, John
;/ TITLE OF INVENTION: Technetium-99m Labeled Peptides for
;/ TITLE OF INVENTION: Thrombus Imaging
;/ NUMBER OF SEQUENCES: 33
;/ CORRESPONDENCE ADDRESS:
;/ ADDRESSEE: Allegretti & Witcoff, Ltd.
;/ STREET: 10 South Wacker Drive Suite 3000
;/ CITY: Chicago
;/ STATE: Illinois
;/ COUNTRY: USA
;/ ZIP: 60606
;/ COMPUTER READABLE FORM:
;/ MEDIUM TYPE: Floppy disk
;/ COMPUTER: IBM PC compatible
;/ OPERATING SYSTEM: PC-DOS/MS-DOS
;/ SOFTWARE: PatentIn Release #1.0, Version #1.25
;/ CURRENT APPLICATION DATA:
;/ APPLICATION NUMBER: US/08/273,274
;/ FILING DATE:
;/ CLASSIFICATION: 436
;/ PRIOR APPLICATION NUMBER: US 07/886,752
;/ FILING DATE: 21-MAY-1992
;/ ATTORNEY/AGENT INFORMATION:
;/ NAME: No. 5849260nan, Kevin E
;/ REGISTRATION NUMBER: 35,303

;/ REFERENCE/DOCKET NUMBER: 92,216
;/ TELECOMMUNICATION INFORMATION:
;/ TELEPHONE: 312-715-1000
;/ TELEFAX: 312-715-1234
;/ TELEX: 910-221-5317
;/ INFORMATION FOR SEQ ID NO: 23:
;/ SEQUENCE CHARACTERISTICS:
;/ LENGTH: 8 amino acids
;/ TYPE: amino acid
;/ TOPOLOGY: linear
;/ MOLECULE TYPE: peptide
;/ US-08-273-274-23

Query Match 3.0%; Score 33; DB 2; Length 8;
Best Local Similarity 85.7%; Pred. No. 3e+05;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 101 RGDGTGG 107
Db 2 RGDGGGG 8

RESULT 15
US-08-475-041-23
;/ Sequence 23, Application US/08475041
;/ Patent No. 5879658
;/ GENERAL INFORMATION:
;/ APPLICANT: Dean, Richard T
;/ APPLICANT: Lister-James, John
;/ TITLE OF INVENTION: Technetium-99m Labeled Peptides for
;/ TITLE OF INVENTION: Thrombus Imaging
;/ NUMBER OF SEQUENCES: 33
;/ CORRESPONDENCE ADDRESS:
;/ ADDRESSEE: Banner & Allegretti, Ltd.
;/ STREET: 10 South Wacker Drive Suite 3000
;/ CITY: Chicago
;/ STATE: Illinois
;/ COUNTRY: USA
;/ ZIP: 60606

;/ COMPUTER READABLE FORM:
;/ MEDIUM TYPE: Floppy disk
;/ COMPUTER: IBM PC compatible
;/ OPERATING SYSTEM: PC-DOS/MS-DOS
;/ SOFTWARE: PatentIn Release #1.0, Version #1.25
;/ CURRENT APPLICATION DATA:
;/ APPLICATION NUMBER: US/08/475,041
;/ FILING DATE: 07-JUN-1995
;/ CLASSIFICATION: 424
;/ ATTORNEY/AGENT INFORMATION:
;/ NAME: No. 5879658nan, Kevin E
;/ REGISTRATION NUMBER: 35,303
;/ REFERENCE/DOCKET NUMBER: 92,216-M
;/ TELECOMMUNICATION INFORMATION:
;/ TELEPHONE: 312-715-1000
;/ TELEFAX: 312-715-1234
;/ TELEX: 910-221-5317
;/ INFORMATION FOR SEQ ID NO: 23:
;/ SEQUENCE CHARACTERISTICS:
;/ LENGTH: 8 amino acids
;/ TYPE: amino acid
;/ TOPOLOGY: linear
;/ MOLECULE TYPE: peptide
;/ US-08-475-041-23

Query Match 3.0%; Score 33; DB 2; Length 8;
Best Local Similarity 85.7%; Pred. No. 3e+05;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 101 RGDGTGG 107
Db 2 RGDGGGG 8

RESULT 16
US-08-484-773-23
; Sequence 23, Application US/08484773
; Patent No. 5968476
; GENERAL INFORMATION:
; APPLICANT: Dean, Richard T
; APPLICANT: Lister-James, John
; TITLE OF INVENTION: Technetium-99m Labeled Peptides for
; TITLE OF INVENTION: Thrombus Imaging
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Allegretti, Ltd.
; STREET: 10 South Wacker Drive Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,773
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5968476nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 92,216-O
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELEX: 910-221-5317
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-773-23

Query Match 3.0%; Score 33; DB 2; Length 8;
Best Local Similarity 85.7%; Pred. No. 3e+05;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 101 RGDGTGG 107
|||
Db 2 RGDGGG 8

RESULT 17
US-08-361-864-27
; Sequence 27, Application US/08361864
; Patent No. 5977064
; GENERAL INFORMATION:
; APPLICANT: Dean, Richard T
; APPLICANT: Lister-James, John
; TITLE OF INVENTION: Multimeric Polyvalent Antithrombotic
; TITLE OF INVENTION: Agents
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Allegretti & Witcoff, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/361,864
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/955,466A
; FILING DATE: 19921002
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5977064nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 92,668
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELEX: 910-221-5317
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-361-864-27

Query Match 3.0%; Score 33; DB 2; Length 8;
Best Local Similarity 85.7%; Pred. No. 3e+05;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 101 RGDGTGG 107
|||
Db 2 RGDGGG 8

RESULT 18
US-08-335-832-23
; Sequence 23, Application US/08335832
; Patent No. 5925331
; GENERAL INFORMATION:
; APPLICANT: Dean, Richard T
; APPLICANT: Lister-James, John
; TITLE OF INVENTION: Technetium-99m Labeled Peptides for
; TITLE OF INVENTION: Thrombus Imaging
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Allegretti, Ltd.
; STREET: 10 South Wacker Drive Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/335,832
; FILING DATE: 05-JAN-1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5925331nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 92,216-I
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELEX: 910-221-5317
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-335-832-23

Query Match 3.0%; Score 33; DB 2; Length 9;
 Best Local Similarity 85.7%; Pred. No. 3e+05;
 Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 101 RGDGTGG 107
 Db 2 RGDGGGG 8

RESULT 19
 US-08-753-781-36
 ; Sequence 36, Application US/08753781C
 ; Patent No. 5951981
 ; GENERAL INFORMATION:
 ; APPLICANT: Markland Jr., Francis S.
 ; APPLICANT: Bush, Larry R.
 ; APPLICANT: Swenson, Stephen
 ; APPLICANT: Flores Sanchez, Eladio
 ; TITLE OF INVENTION: THROMBOLYTIC AGENTS WITH ANTITHROMBOTIC ACTIVITY
 ; FILE REFERENCE: DITI 124
 ; CURRENT APPLICATION NUMBER: US/08/753,781C
 ; CURRENT FILING DATE: 1996-12-02
 ; NUMBER OF SEQ ID NOS: 40
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 36
 ; LENGTH: 9
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: synthetic
 ; OTHER INFORMATION: peptide
 US-08-753-781-36

Query Match 3.0%; Score 33; DB 2; Length 9;
 Best Local Similarity 85.7%; Pred. No. 3e+05;
 Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 101 RGDGTGG 107
 Db 2 RGDGGGG 8

RESULT 20
 US-09-141-127-19
 ; Sequence 19, Application US/09141127A
 ; Patent No. 6083481
 ; GENERAL INFORMATION:
 ; APPLICANT: Dean, Richard T.
 ; APPLICANT: Lister-James, John
 ; TITLE OF INVENTION: THROMBUS IMAGING AGENTS
 ; FILE REFERENCE: DITI 113.1USC1
 ; CURRENT APPLICATION NUMBER: US/09/141,127A
 ; CURRENT FILING DATE: 1998-08-27
 ; EARLIER APPLICATION NUMBER: 08/335,832
 ; EARLIER FILING DATE: 1995-01-05
 ; EARLIER APPLICATION NUMBER: PCT/US93/04794
 ; EARLIER FILING DATE: 1993-05-21
 ; EARLIER APPLICATION NUMBER: 07/886,752
 ; EARLIER FILING DATE: 1992-05-21
 ; NUMBER OF SEQ ID NOS: 40
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 19
 ; LENGTH: 9
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: synthetic
 ; OTHER INFORMATION: peptide
 US-09-141-127-19

Query Match 3.0%; Score 33; DB 3; Length 9;
 Best Local Similarity 85.7%; Pred. No. 3e+05;

Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 101 RGDGTGG 107
 Db 2 RGDGGGG 8

RESULT 21
 US-08-658-639-8
 ; Sequence 8, Application US/08658639
 ; Patent No. 5914238
 ; GENERAL INFORMATION:
 ; APPLICANT: KEESEE, SUSAN
 ; APPLICANT: OBAR, ROBERT
 ; APPLICANT: WU, YING-JYE
 ; TITLE OF INVENTION: MATERIALS AND METHODS FOR DETECTION OF
 ; NUMBER OF SEQUENCES: 14
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Testa, Hurwitz & Thibault
 ; STREET: 125 High St.
 ; CITY: Boston
 ; STATE: MA
 ; COUNTRY: USA
 ; ZIP: 02110
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/658,639
 ; FILING DATE:
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: MEYERS, THOMAS C
 ; REGISTRATION NUMBER: 36,989
 ; REFERENCE/DOCKET NUMBER: MTP-021 (8395/24)
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (617) 248-7000
 ; TELEFAX: (617) 248-7100
 ; INFORMATION FOR SEQ ID NO: 8:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 10 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 US-08-658-639-8

Query Match 3.0%; Score 33; DB 2; Length 10;
 Best Local Similarity 60.0%; Pred. No. 1.9e+03;
 Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 114 RFPDENFKLK 123
 Db 1 KFDDENFILR 10

RESULT 22
 US-08-944-604-8
 ; Sequence 8, Application US/08944604
 ; Patent No. 6218131
 ; GENERAL INFORMATION:
 ; APPLICANT: KEESEE, SUSAN
 ; APPLICANT: OBAR, ROBERT
 ; APPLICANT: WU, YING-JYE
 ; TITLE OF INVENTION: MATERIALS AND METHODS FOR DETECTION OF
 ; NUMBER OF SEQUENCES: 24
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Testa, Hurwitz & Thibault
 ; STREET: 125 High St.

```
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/944,604
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MEYERS, THOMAS C
; REGISTRATION NUMBER: 36,989
; REFERENCE/DOCKET NUMBER: MTP-021 (8395/24)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 248-7000
; TELEFAX: (617) 248-7100
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-944-604-8

Query Match 3.0%; Score 33; DB 3; Length 10;
Best Local Similarity 60.0%; Pred. No. 1.9e+03;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 114 RPDENFKLK 123
Db 1 KFDENFILR 10

RESULT 23
US-09-269-991B-10
; Sequence 10, Application US/09269991B
; Patent No. 6686333
; GENERAL INFORMATION:
; APPLICANT: Kashanchi, Fatah
; Sadaie, Mohamad Reza
; Brady, John N.
; TITLE OF INVENTION: Inhibition of HIV Replication Using
; Soluble Tat Peptide Analogs
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/269,991B
; FILING DATE: 07-Sep-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/US97/17704
; FILING DATE: 02-OCT-1997
; APPLICATION NUMBER: US 60/027,658
; FILING DATE: 04-OCT-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
```

```
; REFERENCE/DOCKET NUMBER: 015280-276100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-269-991B-10

Query Match 3.0%; Score 33; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.9e+03;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 28 KKGPK 33
Db 1 KKGPK 6

RESULT 24
US-08-656-906-26
; Sequence 26, Application US/08656906
; Patent No. 5972901
; GENERAL INFORMATION:
; APPLICANT: Ferkol Jr., Thomas W.
; APPLICANT: Davis, Pamela B.
; APPLICANT: Ziad, Assem-Galal
; TITLE OF INVENTION: Serpin Enzyme Complex Receptor -
; TITLE OF INVENTION: Mediated Gene Transfer
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Medlen & Carroll
; STREET: 220 Montgomery Street, Suite 2200
; CITY: San Francisco
; STATE: California
; COUNTRY: United States Of America
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/656,906
; FILING DATE: 03-JUN-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/
; FILING DATE: 03-JUN-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO 95/25809
; FILING DATE: 23-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/216,534
; FILING DATE: 23-MAR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Ingolia, Diane E.
; REGISTRATION NUMBER: 40,027
; REFERENCE/DOCKET NUMBER: CASE-02280
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 705-8410
; TELEFAX: (415) 397-8338
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: peptide
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US-08-656-906-26

Query Match 3.0%; Score 33; DB 2; Length 14;
Best Local Similarity 50.0%; Pred. No. 2.9e+03;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 96 GGDFTRGDTGGKS 109
|| : ||: ||
Db 1 GGGSGGGSGGGS 14

RESULT 25

US-09-217-847-26
; Sequence 26, Application US/09217847
; Patent No. 6200801
; GENERAL INFORMATION:
; APPLICANT: Ferkol Jr., Thomas W.
; APPLICANT: Davis, Pamela B.
; APPLICANT: Ziady, Assem-Galal
; TITLE OF INVENTION: Serpin Enzyme Complex Receptor -
; TITLE OF INVENTION: Mediated Gene Transfer
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Medlen & Carroll
; STREET: 220 Montgomery Street, Suite 2200
; CITY: San Francisco
; STATE: California
; COUNTRY: United States Of America
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/217,847
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/656,906
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO WO 95/25809
; FILING DATE: 23-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/216,534
; FILING DATE: 23-MAR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Ingolia, Diane E.
; REGISTRATION NUMBER: 40,027
; REFERENCE/DOCKET NUMBER: CASE-02280
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 705-8410
; TELEFAX: (415) 397-8338
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: peptide
US-09-217-847-26

Query Match 3.0%; Score 33; DB 3; Length 14;
Best Local Similarity 50.0%; Pred. No. 2.9e+03;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 96 GGDFTRGDTGGKS 109
|| : ||: ||
Db 1 GGGSGGGSGGGS 14

RESULT 26

US-08-973-563A-27
; Sequence 27, Application US/08973563A
; Patent No. 5885965
; GENERAL INFORMATION:
; APPLICANT: Oppenheim, Frank G.
; APPLICANT: Xu, Tao
; APPLICANT: Spacciapoli, Peter
; APPLICANT: Roberts, F. D.
; APPLICANT: Friden, Philip M.
; TITLE OF INVENTION: Anti-Fungal D-Amino Acid Histatin-Based
; TITLE OF INVENTION: Peptides
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: US
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/973,563A
; FILING DATE: 07-JUN-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,273
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: PER95-02A2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 781-861-6240
; TELEFAX: 781-861-9540
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Region
; LOCATION: 1..12
; OTHER INFORMATION: /note= "At least one amino acid
; OTHER INFORMATION: must have a D configuration."
US-08-973-563A-27

Query Match 3.0%; Score 32.5; DB 2; Length 12;
Best Local Similarity 77.8%; Pred. No. 2.7e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

Qy 78 FGYNKSKFH 86
|||||
Db 5 FGYNK-KFH 12

RESULT 27

US-08-973-559-27
; Sequence 27, Application US/08973559
; Patent No. 5912230
; GENERAL INFORMATION:
; APPLICANT: OPPENHEIM, FRANK G.
; APPLICANT: XU, TAO
; APPLICANT: ROBERTS, F. D.
; APPLICANT: SPACCIAPOLI, PETER
; APPLICANT: FRIDEN, PHILIP M.
; TITLE OF INVENTION: Anti-Fungal and Anti-Bacterial
; TITLE OF INVENTION: Histatin-Based Peptides

/ NUMBER OF SEQUENCES: 37
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
/ STREET: Two Militia Drive
/ CITY: Lexington
/ STATE: MA
/ COUNTRY: US
/ ZIP: 02173
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/973,559
/ FILING DATE: 07-JUN-1996
/ CLASSIFICATION: 514
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/481,888
/ FILING DATE: 07-JUN-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Brook, David E.
/ REGISTRATION NUMBER: 22,592
/ REFERENCE/DOCKET NUMBER: PER95-01A2
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 781-861-6240
/ TELEFAX: 781-861-9540
/ INFORMATION FOR SEQ ID NO: 27:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 12 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ US-08-973-559-27

Query Match 3.0%; Score 32.5; DB 2; Length 12;
Best Local Similarity 77.8%; Pred. No. 2.7e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

Qy 78 FGYNKSKFH 86
Db 5 FGYNKSKFH 12

RESULT 28
US-08-993-235-7
; Sequence 7, Application US/08993235
; Patent No. 6084064
; GENERAL INFORMATION:
; APPLICANT: OPPENHEIM, FRANK G.
; APPLICANT: ROBERTS, F. DONALD
; APPLICANT: XU, TAO
; APPLICANT: SPACCIAPOLI, PETER
; TITLE OF INVENTION: ANTIFUNGAL AND ANTIBACTERIAL PEPTIDES
; FILE REFERENCE: 50032/002001
; CURRENT APPLICATION NUMBER: US/08/993,235
; CURRENT FILING DATE: 1997-12-18
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-993-235-7

Query Match 3.0%; Score 32.5; DB 3; Length 12;
Best Local Similarity 77.8%; Pred. No. 2.7e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

Qy 78 FGYNKSKFH 86
Db 5 FGYNKSKFH 12

RESULT 29
US-08-993-235-7
; Sequence 7, Application US/08993235
; Patent No. 6531573
; GENERAL INFORMATION:
; APPLICANT: OPPENHEIM, FRANK G.
; APPLICANT: ROBERTS, F. DONALD
; APPLICANT: XU, TAO
; APPLICANT: SPACCIAPOLI, PETER
; TITLE OF INVENTION: ANTIFUNGAL AND ANTIBACTERIAL PEPTIDES
; FILE REFERENCE: 50032/002001
; CURRENT APPLICATION NUMBER: US/08/993,235
; CURRENT FILING DATE: 1997-12-18
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-993-235-7

Query Match 3.0%; Score 32.5; DB 4; Length 12;
Best Local Similarity 77.8%; Pred. No. 2.7e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

Qy 78 FGYNKSKFH 86
Db 5 FGYNKSKFH 12

RESULT 30
US-08-394-748A-4
; Sequence 4, Application US/08394748A
; Patent No. 6013628
; GENERAL INFORMATION:
; APPLICANT: Skubitz, Amy P.N.
; APPLICANT: Furcht Leo T.
; APPLICANT: Balles, Mark
; APPLICANT: Gregerson, Dale S.
; APPLICANT: Agarwal, Anita
; APPLICANT: Wright, Martha M.
; APPLICANT: Murali, Shobana
; TITLE OF INVENTION: Method for Treating Conditions of the Eye
; TITLE OF INVENTION: Using Polypeptides
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 3100 No. 6013628west Center
; CITY: Minneapolis
; STATE: MN
; COUNTRY: USA
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/394,748A
; FILING DATE: 27-FEB-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/203,458
; FILING DATE: 28-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Carter, Charles G.
; REGISTRATION NUMBER: 35,093
; REFERENCE/DOCKET NUMBER: 600.307US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612-332-5300
; TELEFAX: 612-332-9081

; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 13 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; ORIGINAL SOURCE:
 ; STRAIN: Hep-III
 US-08-394-748A-4

Query Match 3.0%; Score 32.5; DB 3; Length 13;
 Best Local Similarity 70.0%; Pred. No. 3e+03;
 Matches 7; Conservative 2; Mismatches 0; Indels 1; Gaps 1;

QY 39 YFDLRI-GDE 47
 |||||: ||:
 Db 4 YFDLRLKGDK 13

RESULT 31
 US-08-916-913A-7
 ; Sequence 7, Application US/08916913A
 ; Patent No. 6121027
 ; GENERAL INFORMATION:
 ; APPLICANT: Clapper, David L.
 ; APPLICANT: Swanson, Melvin J.
 ; APPLICANT: Hu, Sheau-Ping
 ; APPLICANT: Amos, Richard A.
 ; APPLICANT: Everson, Terrence P.
 ; TITLE OF INVENTION: LATENT REACTIVE POLYMERS WITH
 ; TITLE OF INVENTION: BIOLOGICALLY ACTIVE MOIETIES
 ; NUMBER OF SEQUENCES: 16
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Fredrikson & Byron, P.A.
 ; STREET: 900 Second Avenue South
 ; CITY: Minneapolis
 ; STATE: Minnesota
 ; COUNTRY: USA
 ; ZIP: 55402-3397
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: Windows-97
 ; SOFTWARE: ASCII files
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/916,913A
 ; FILING DATE: 15 August 1997
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: No. 6121027e
 ; FILING DATE: No. 6121027e
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Goldman, Philip M.
 ; REGISTRATION NUMBER: 31,162
 ; REFERENCE/DOCKET NUMBER: 9896.116.0
 ; TELEPHONE: (612) 347-7088
 ; TELEFAX: (612) 347-7077
 ; INFORMATION FOR SEQ ID NO: 7:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 13 amino acid residues
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 US-08-916-913A-7

Query Match 3.0%; Score 32.5; DB 3; Length 13;
 Best Local Similarity 70.0%; Pred. No. 3e+03;
 Matches 7; Conservative 2; Mismatches 0; Indels 1; Gaps 1;

QY 39 YFDLRI-GDE 47
 |||||: ||:
 Db 4 YFDLRLKGDK 13

RESULT 32
 US-09-591-564-7
 ; Sequence 7, Application US/09591564
 ; Patent No. 6514734
 ; GENERAL INFORMATION:
 ; APPLICANT: Clapper, David L.
 ; Swanson, Melvin J.
 ; Hu, Sheau-Ping
 ; Amos, Richard A.
 ; Everson, Terrence P.
 ; TITLE OF INVENTION: LATENT REACTIVE POLYMERS WITH BIOLOGICALLY
 ; ACTIVE MOIETIES
 ; NUMBER OF SEQUENCES: 16
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Fredrikson & Byron, P.A.
 ; STREET: 900 Second Avenue South
 ; CITY: Minneapolis
 ; STATE: Minnesota
 ; COUNTRY: USA
 ; ZIP: 55402-3397
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: Windows-97
 ; SOFTWARE: ASCII files
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/591,564
 ; FILING DATE: 09-Jun-2000
 ; CLASSIFICATION: <Unknown>
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/916,913
 ; FILING DATE: <Unknown>
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Goldman, Philip M.
 ; REGISTRATION NUMBER: 31,162
 ; REFERENCE/DOCKET NUMBER: 9896.116.0
 ; TELEPHONE: (612) 347-7088
 ; TELEFAX: (612) 347-7077
 ; INFORMATION FOR SEQ ID NO: 7:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 13 amino acid residues
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
 US-09-591-564-7

Query Match 3.0%; Score 32.5; DB 4; Length 13;
 Best Local Similarity 70.0%; Pred. No. 3e+03;
 Matches 7; Conservative 2; Mismatches 0; Indels 1; Gaps 1;

QY 39 YFDLRI-GDE 47
 |||||: ||:
 Db 4 YFDLRLKGDK 13

RESULT 33
 PCT-US95-02478-4
 ; Sequence 4, Application PC/TUS9502478
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: Method for Treating Conditions
 ; TITLE OF INVENTION: Of the Eye Using Polypeptides
 ; NUMBER OF SEQUENCES: 16
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US95/02478
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/203,458
; FILING DATE: 28-FEB-1994
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; STRAIN: Hep-III
; PCT-US95-02478-4

Query Match 3.0%; Score 32.5; DB 5; Length 13;
Best Local Similarity 70.0%; Pred. No. 3e+03;
Matches 7; Conservative 2; Mismatches 0; Indels 1; Gaps 1;

QY 39 YFDLRI-GDE 47
Db 4 YFDLRLKGDK 13

RESULT 34
US-08-271-830-56
; Sequence 56, Application US/08271830
; Patent No. 5510332
; GENERAL INFORMATION:
; APPLICANT: Kogan, Timothy P.
; APPLICANT: Ren, Kaijun
; APPLICANT: Vanderslice, Peter
; APPLICANT: Beck, Pamela J.
; TITLE OF INVENTION: A PROCESS OF INHIBITING THE BINDING OF THE
; TITLE OF INVENTION: INTEGRIN '4 1 TO VCAM OR FIBRONECTIN AND
; TITLE OF INVENTION: LINEAR PEPTIDES THEREFOR
; NUMBER OF SEQUENCES: 102
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dressler, Goldsmith, Shore & Milnamow, Ltd.
; STREET: 180 No. 5510332th Stetson, Suite 4700
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/271,830
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5510332thrup, Thomas E.
; REGISTRATION NUMBER: 33,268
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312)616-5400
; TELEFAX: (312)616-5460
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 8
; OTHER INFORMATION: /label= Xaa
; OTHER INFORMATION: /note= "Xaa=Pro-NH2."
US-08-271-830-56

Query Match 3.0%; Score 32; DB 1; Length 8;
Best Local Similarity 57.1%; Pred. No. 3e+05;
Matches 4; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 126 GPGWVSM 132
Db 1 GPGWLDV 7

RESULT 35
US-08-416-870C-15
; Sequence 15, Application US/08416870C
; Patent No. 5824862
; GENERAL INFORMATION:
; APPLICANT: HIYOSHI, TORU
; APPLICANT: MINE, TOSHIKI
; APPLICANT: KASAKA, KEISUKE
; APPLICANT: TYSON, ROBERT HUM
; APPLICANT: PAGE, ANTHONY MILES JOHN
; TITLE OF INVENTION: DNA ENCODING ATP-DEPENDENT FRUCTOSE 6-PHOSPHATE
; TITLE OF INVENTION: 1-PHOSPHOTRANSFERASE ORIGINATING FROM PLANT, RECOMBINANT VECTOR
; TITLE OF INVENTION: SAME AND METHOD FOR CHANGING SUGAR CONTENT IN PLANT CELLS UNDER
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BIRCH, STEWART, KOLASCH AND BIRCH, LLP
; STREET: PO BOX 747
; CITY: FALL CHURCH
; STATE: VA
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/416,870C
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MURPHY JR, GERALD M
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 760-195P(PCT)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-416-870C-15

Query Match 3.0%; Score 32; DB 2; Length 8;
Best Local Similarity 83.3%; Pred. No. 3e+05;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 62 PKTVDN 67
Db 1 PKTIDN 6

RESULT 36
US-08-232-539D-32
; Sequence 32, Application US/08232539D
; Patent No. 5965709
; GENERAL INFORMATION:
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; TITLE OF INVENTION: Ige Antagonists
; NUMBER OF SEQUENCES: 60

;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,539D
; FILING DATE: 21-Apr-1994
; CLASSIFICATION: 530
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/178583
; FILING DATE: 07-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/744768
; FILING DATE: 14-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Svoboda, Craig G.
; REGISTRATION NUMBER: 39,044
; REFERENCE/DOCKET NUMBER: P0718P3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/225-1489
; TELEFAX: 650/952-9881
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
;
US-08-232-539D-32

Query Match 3.0%; Score 32; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 WLDGK 157
|||
Db 4 WLDGK 8

RESULT 37
US-08-466-151-50
; Sequence 50, Application US/08466151
; Patent No. 6037453
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Immunoglobulin Variants
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/466,151
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/466163
; FILING DATE: 06-Jun-1995

;
; APPLICATION NUMBER: 08/405617
; FILING DATE: 15-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/185899
; FILING DATE: 26-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/879495
; FILING DATE: 07-MAY-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/744768
; FILING DATE: 14-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Svoboda, Craig G.
; REGISTRATION NUMBER: 39,044
; REFERENCE/DOCKET NUMBER: P0718P2C1D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/225-1489
; TELEFAX: 650/952-9881
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
;
US-08-466-151-50

Query Match 3.0%; Score 32; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 WLDGK 157
|||
Db 4 WLDGK 8

RESULT 38
US-08-466-163B-50
; Sequence 50, Application US/08466163B
; Patent No. 6329509
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Immunoglobulin Variants
; FILE REFERENCE: P0718P2C1D1
; CURRENT APPLICATION NUMBER: US/08/466,163B
; CURRENT FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: US 08/405,617
; PRIOR FILING DATE: 1995-03-15
; PRIOR APPLICATION NUMBER: US 08/185,899
; PRIOR FILING DATE: 1994-01-26
; PRIOR APPLICATION NUMBER: US 07/879,495
; PRIOR FILING DATE: 1992-05-07
; PRIOR APPLICATION NUMBER: US 07/744,768
; PRIOR FILING DATE: 1991-08-14
; NUMBER OF SEQ ID NOS: 64
; SEQ ID NO 50
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment
US-08-466-163B-50

Query Match 3.0%; Score 32; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 WLDGK 157
|||
Db 4 WLDGK 8

RESULT 39
US-09-802-096-50

; Sequence 50, Application US/09802096
; Patent No. 6685939
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Method of Preventing the Onset of Allergic Disorders (as amended)
; FILE REFERENCE: P0718P2C3US
; CURRENT APPLICATION NUMBER: US/09/802,096
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: US 08/405,617
; PRIOR FILING DATE: 1995-03-15
; PRIOR APPLICATION NUMBER: US 08/185,899
; PRIOR FILING DATE: 1994-01-26
; PRIOR APPLICATION NUMBER: PCT/US92/06860
; PRIOR FILING DATE: 1992-08-14
; PRIOR APPLICATION NUMBER: US 07/879,495
; PRIOR FILING DATE: 1992-05-07
; PRIOR APPLICATION NUMBER: US 07/744,768
; PRIOR FILING DATE: 1991-08-14
; NUMBER OF SEQ ID NOS: 64
; SEQ ID NO 50
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment
US-09-802-096-50

Query Match 3.0%; Score 32; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 WLDGK 157
Db 4 WLDGK 8

RESULT 40
US-08-464-025A-9
; Sequence 9, Application US/08464025A
; Patent No. 5994514
; GENERAL INFORMATION:
; APPLICANT: Jardieu et al.
; TITLE OF INVENTION: IMMUNOGLOBULIN VARIANTS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/464,025A
; FILING DATE: 05-Jun-1995
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Svoboda, Craig G.
; REGISTRATION NUMBER: 39,044
; REFERENCE/DOCKET NUMBER: P0718C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/225-1489
; TELEFAX: 650/952-9881
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear

US-08-464-025A-9

Query Match 3.0%; Score 32; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 WLDGK 157
Db 5 WLDGK 9

RESULT 41
US-08-466-151-17
; Sequence 17, Application US/08466151
; Patent No. 6037453
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Immunoglobulin Variants
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/466,151
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/466163
; FILING DATE: 06-Jun-1995
; APPLICATION NUMBER: 08/405617
; FILING DATE: 15-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/185899
; FILING DATE: 26-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/879495
; FILING DATE: 07-MAY-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/744768
; FILING DATE: 14-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Svoboda, Craig G.
; REGISTRATION NUMBER: 39,044
; REFERENCE/DOCKET NUMBER: P0718P2C1D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/225-1489
; TELEFAX: 650/952-9881
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
US-08-466-151-17

Query Match 3.0%; Score 32; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 153 WLDGK 157
Db 5 WLDGK 9

RESULT 42
US-08-466-151-46
; Sequence 46, Application US/08466151
; Patent No. 6037453
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Immunoglobulin Variants
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/466,151
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/466163
; FILING DATE: 06-Jun-1995
; APPLICATION NUMBER: 08/405617
; FILING DATE: 15-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/185899
; FILING DATE: 26-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/879495
; FILING DATE: 07-MAY-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/744768
; FILING DATE: 14-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Svoboda, Craig G.
; REGISTRATION NUMBER: 39,044
; REFERENCE/DOCKET NUMBER: P0718P2C1D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/225-1489
; TELEFAX: 650/952-9881
; INFORMATION FOR SEQ ID NO: 46:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
US-08-466-151-46

Query Match 3.0%; Score 32; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 153 WLDGK 157
Db 5 WLDGK 9

RESULT 43
US-08-466-163B-17
; Sequence 17, Application US/08466163B
; Patent No. 6329509
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Immunoglobulin Variants
; FILE REFERENCE: P0718P2C1D1
; CURRENT APPLICATION NUMBER: US/08/466,163B
; CURRENT FILING DATE: 1995-06-06

; PRIOR APPLICATION NUMBER: US 08/405,617
; PRIOR FILING DATE: 1995-03-15
; PRIOR APPLICATION NUMBER: US 08/185,899
; PRIOR FILING DATE: 1994-01-26
; PRIOR APPLICATION NUMBER: US 07/879,495
; PRIOR FILING DATE: 1992-05-07
; PRIOR APPLICATION NUMBER: US 07/744,768
; PRIOR FILING DATE: 1991-08-14
; NUMBER OF SEQ ID NOS: 64
; SEQ ID NO 17
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-466-163B-17

Query Match 3.0%; Score 32; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 153 WLDGK 157
Db 5 WLDGK 9

RESULT 44
US-08-466-163B-46
; Sequence 46, Application US/08466163B
; Patent No. 6329509
; GENERAL INFORMATION:
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Presta, Leonard G.
; TITLE OF INVENTION: Immunoglobulin Variants
; FILE REFERENCE: P0718P2C1D1
; CURRENT APPLICATION NUMBER: US/08/466,163B
; CURRENT FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: US 08/405,617
; PRIOR FILING DATE: 1995-03-15
; PRIOR APPLICATION NUMBER: US 08/185,899
; PRIOR FILING DATE: 1994-01-26
; PRIOR APPLICATION NUMBER: US 07/879,495
; PRIOR FILING DATE: 1992-05-07
; PRIOR APPLICATION NUMBER: US 07/744,768
; PRIOR FILING DATE: 1991-08-14
; NUMBER OF SEQ ID NOS: 64
; SEQ ID NO 46
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Mutant sequence substituted in place of IgE Fc(epsilon)3 fragment
US-08-466-163B-46

Query Match 3.0%; Score 32; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.4e+03;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 153 WLDGK 157
Db 5 WLDGK 9

RESULT 45
US-09-755-630B-33
; Sequence 33, Application US/09755630B
; Patent No. 6639054
; GENERAL INFORMATION:
; APPLICANT: ALIBHAI, MURTAZA F.
; APPLICANT: ASTWOOD, JAMES D.
; APPLICANT: SAMPSON, HUGH A.
; APPLICANT: MCWHERTER, CHARLES A.
; TITLE OF INVENTION: PREPARATION OF DEALLERGENIZED PROTEINS AND PERMUTEINS
; FILE REFERENCE: 11899.0217.NPUS00 (MCBT217)
; CURRENT APPLICATION NUMBER: US/09/755,630B

```
; CURRENT FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 60/174,669
; PRIOR FILING DATE: 2000-01-06
; NUMBER OF SEQ ID NOS: 295
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 33
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic polypeptide
US-09-755-630B-33

Query Match      3.0%; Score 32; DB 4; Length 10;
Best Local Similarity 75.0%; Pred. No. 2.4e+03;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      201 KPFAIAKE 208
      :||| |||
Db      3 RPFAAAKE 10

Search completed: August 30, 2004, 10:57:21
Job time : 83.2162 secs
```


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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:04:19 ; Search time 83 Seconds
(without alignments)

38.898 Million cell updates/sec

Title: US-09-720-469A-37

Perfect score: 39

Sequence: 1 KXHRVIKDX 9

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2002273 seqs, 358729299 residues

Total number of hits satisfying chosen parameters: 497672

Minimum DB seq length: 0

Maximum DB seq length: 12

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A_Geneseq_23Sep04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	36	92.3	9	3	AAY69962 Human cyc
2	36	92.3	9	3	AAY69960 Human cyc
3	36	92.3	9	3	AAY69921 Human cyc
4	36	92.3	9	4	AAB46946 Human cyc
5	36	92.3	9	4	AAB46930 Human cyc
6	36	92.3	9	4	AAG68088 Human cyc
7	36	92.3	9	5	ABG79075 Human cyc
8	36	92.3	9	6	ABR84373 Human Cyc
9	36	92.3	9	7	ADC17701 Cyclophil
10	36	92.3	9	8	ADG89641 Class I H
11	28	71.8	9	5	ABG94771 Replikin
12	28	71.8	9	5	ABG94772 Replikin
13	28	71.8	9	6	ABU57321 Replikin
14	28	71.8	9	6	ABU57322 Replikin
15	28	71.8	9	7	ADD88394 Tumour vi
16	28	71.8	9	7	ADD88395 Tumour vi
17	28	71.8	9	7	ADG18172 Tumour vi
18	28	71.8	9	7	ADG18173 Tumour vi
19	27	69.2	12	2	AAW92359 CYP2B1 im
20	25	64.1	7	8	ADF66836 Human his
21	25	64.1	10	8	ADF66861 Murine hi
22	25	64.1	10	8	ADF66867 Human his
23	25	64.1	11	3	AAY69924 Human cyc
24	25	64.1	12	8	ADO33999 Fucosyltr
25	25	61.5	9	5	ABG32837 PP2AA-bin

26	24	61.5	9	5	ABG32836	PP2AA-bin
27	23	59.0	10	2	AAR96521	Hepatitis
28	23	59.0	10	8	ADP26227	Plasmodiu
29	23	59.0	11	2	AAR48203	Human pho
30	23	59.0	11	2	AAW67692	LXXLL sig
31	23	59.0	11	4	AAB82292	Phosphory
32	23	59.0	11	6	ABU57332	Replikin
33	23	59.0	11	7	ADD88405	Transform
34	23	59.0	11	7	ADG18183	Transform
35	23	59.0	12	1	AAP93365	Amino aci
36	23	59.0	12	2	AAAY43067	GRIP1 nuc
37	22	56.4	9	2	AAW82306	Transport
38	22	56.4	9	3	AAB28435	Bacillus
39	22	56.4	9	8	ADN68529	Human 273
40	22	56.4	10	2	AAR92146	Porphyrin
41	22	56.4	10	5	ABB74381	Karyophil
42	22	56.4	12	2	AAR35255	D32.39 an
43	22	56.4	12	2	AAR56723	Random pe
44	22	56.4	12	2	AAR91471	D32.39 mo
45	22	56.4	12	2	AAW25253	Antibody

ALIGNMENTS

RESULT 1

AAAY69962

ID AAY69962 standard; peptide; 9 AA.

XX

AC AAY69962;

XX

DT 11-APR-2000 (first entry)

XX

DE Human cyclophilin B peptide fragment #42.

XX

KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;

KW HLA antigen; diagnosis; tumour; therapy.

XX

OS Homo sapiens.

XX

PN WO9967288-A1.

XX

PD 29-DEC-1999.

XX

PF 24-JUN-1999; 99WO-JP003360.

XX

PR 25-JUN-1998; 98JP-00178449.

XX

PA (SUMU) SUMITOMO PHARM CO LTD.

PA (ITOH/) ITOH K.

PI Itoh K, Gomi S;

XX

DR WPI; 2000-116932/10.

XX

PT Tumor antigen peptides derived from cyclophilin B for treatment and

PT diagnosis of tumors.

XX

PS Claim 10; Page 60; 64pp; Japanese.

XX

CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours

XX

SQ Sequence 9 AA;

Query Match

Best Local Similarity 92.3%; Score 36; DB 3; Length 9;

Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KXHRVIKDX 8

|||||

Db 1 KYHRVIKD 8

RESULT 2
AAY69960
ID AAY69960 standard; peptide; 9 AA.
XX
AC AAY69960;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #40.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Misc-difference 2 /label= Phe, Tyr, Met, Trp
FT Misc-difference 9 /label= Phe, Leu, Ile, Trp, Met
FT Misc-difference 9 /label= Phe, Leu, Ile, Trp, Met
XX
FN WO9967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP0033360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX
PI Itoh K, Gomi S;
XX
WPI; 2000-116932/10.
XX
PT Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 4; Page 59; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;
Query Match 92.3%; Score 36; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHRVIKD 8
Db 1 KYHRVIKD 8

RESULT 3
AAY69921
ID AAY69921 standard; peptide; 9 AA.
XX
AC AAY69921;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #1.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX

OS Homo sapiens.
XX
FN WO9967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP0033360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX
PI Itoh K, Gomi S;
XX
WPI; 2000-116932/10.
XX
PT Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 10; Page 59; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;
Query Match 92.3%; Score 36; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHRVIKD 8
Db 1 KYHRVIKD 8

RESULT 4
AAB46946
ID AAB46946 standard; peptide; 9 AA.
XX
AC AAB46946;
XX
DT 04-MAY-2001 (first entry)
XX
DE Human cyclophilin B derived tumor antigenic peptide SEQ ID 32.
XX
KW Tumor antigenic peptide; interferon; IFN; antigen-specific T cell;
KW virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell;
KW viral infectious disease; cyclophilin B; human.
XX
OS Homo sapiens.
XX
FN EP1074267-A1.
XX
PD 07-FEB-2001.
XX
PF 24-JUL-2000; 2000EP-00306263.
XX
PR 22-JUL-1999; 99JP-00207687.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
XX
PI Takasu H, Gotoh M, Yamaoka T;
XX
WPI; 2001-193144/20.
XX
PT Use of antigenic proteins, peptides, interferon or their encoding DNA, in
PT the manufacture of an agent for the induction of antigen-specific T
PT cells.
XX
PS Disclosure; Page 19; 25pp; English.

XX This invention describes the novel use of interferons (IFNs) or DNAs
CC capable of expressing the interferons and/or antigenic proteins (AP),
CC antigenic peptides derived from the proteins or DNAs capable of
CC expressing the antigenic proteins or peptides, in the manufacture of an
CC agent for induction of antigen-specific T cells. The products of the
CC invention have virucide and cytostatic activity and can be used for gene
CC therapy or as inducers of antigen-specific T cells. The action of
CC interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic
CC T cell (CTL) by administering an antigenic peptide in an incomplete
CC Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or
CC DNA encoding IFNs) are useful in the manufacture of a medicament for
CC inducing antigen-specific T cells in an individual who has been
CC administered with AP (or DNA encoding AP) or vice versa. The medicament
CC is useful for the treatment or prophylaxis of a tumor or a viral
CC infectious disease
XX
SQ Sequence 9 AA;

Query Match 92.3%; Score 36; DB 4; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KXHRVIKD 8
| | | | |
Db 1 KYHRVIKD 8

RESULT 5
AAB46930
ID AAB46930 standard; peptide; 9 AA.
XX AAB46930;
XX
DT 04-MAY-2001 (first entry)
DE Human cyclophilin B derived tumor antigenic peptide SEQ ID 16.
XX
KW Tumor antigenic peptide; interferon; IFN; antigen-specific T cell;
KW virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell;
KW viral infectious disease; cyclophilin B; human.
XX
OS Homo sapiens.
XX
PN EP1074267-A1.
XX
PD 07-FEB-2001.
XX
PF 24-JUL-2000; 2000EP-00306263.
XX
PR 22-JUL-1999; 99JP-00207687.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
XX
PI Takasu H, Gotoh M, Yamaoka T;
XX
DR WPI; 2001-193144/20.
XX

PT Use of antigenic proteins, peptides, interferon or their encoding DNA, in
PT the manufacture of an agent for the induction of antigen-specific T
PT cells.
XX
PS Disclosure; Page 15; 25pp; English.
XX

CC This invention describes the novel use of interferons (IFNs) or DNAs
CC capable of expressing the interferons and/or antigenic proteins (AP),
CC antigenic peptides derived from the proteins or DNAs capable of
CC expressing the antigenic proteins or peptides, in the manufacture of an
CC agent for induction of antigen-specific T cells. The products of the
CC invention have virucide and cytostatic activity and can be used for gene
CC therapy or as inducers of antigen-specific T cells. The action of
CC interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic
CC T cell (CTL) by administering an antigenic peptide in an incomplete

CC Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or
CC DNA encoding IFNs) are useful in the manufacture of a medicament for
CC inducing antigen-specific T cells in an individual who has been
CC administered with AP (or DNA encoding AP) or vice versa. The medicament
CC is useful for the treatment or prophylaxis of a tumor or a viral
CC infectious disease
XX
SQ Sequence 9 AA;

Query Match 92.3%; Score 36; DB 4; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KXHRVIKD 8
| | | | |
Db 1 KHRVIKD 8

RESULT 6
AAG68088
ID AAG68088 standard; peptide; 9 AA.
XX
AC AAG68088;

DT 17-DEC-2001 (first entry)
XX
DE Antitumor peptide cyclophilin B 84-92.

XX
KW Antitumor; cancer; cancer cell recognition; antigenic; CTL; lck; src;
KW tumor specific cytotoxic T lymphocyte; anticancer; SART-1; SART-3;
KW cyclophilin B gene; HLA-A2402.

XX Homo sapiens.

XX JP2001245675-A.

XX 11-SEP-2001.

XX 25-DEC-2000; 2000JP-00393047.

XX 28-DEC-1999; 99JP-00374322.

XX (ITOY/) ITO Y.

XX WPI; 2001-610076/70.

XX New peptides for recognizing cancer cells with tumor specific cytotoxic T
XX lymphocytes and for treating cancer.

XX Claim 8; Page 2; 14pp; Japanese.

XX The present invention describes peptides recognising cancer cells with
CC tumour specific cytotoxic T lymphocytes (CTL). The peptides recognising
CC cancer cells with tumour specific CTLs are selected from: (1) peptides of
CC sequences (AAG68066 to AAG68069); (2) peptides containing the above
CC mentioned sequences; (3) peptides having 70 % or more of homogeneity with
CC the above mentioned sequences; and (4) peptides with one or more deleted,
CC substituted, added or inserted amino acid(s) of the above mentioned
CC sequences, particularly those having recognising property due to HLA-
CC A2402 binding CTL, especially having at least 5 amino acids, used for
CC medicine, particularly anticancer agents, derived from antitumour
CC antigenic peptides of lck, src family, SART-1, SART-3 or cyclophilin B
CC genes. The antitumour peptides have cytostatic activities. The peptides
CC are used for the treatment of cancer. The peptides cause activation of
CC CTL in cancer patients. The present sequence represents a peptide from
CC the present invention

XX Sequence 9 AA;

Query Match 92.3%; Score 36; DB 4; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KXHRVIKD 8
| | | | |
Db 1 KXHRVIKD 8

RESULT 7
ABG79075
ID ABG79075 standard; peptide; 9 AA.
XX
AC ABG79075;
XX
DT 15-NOV-2002 (first entry)
XX
DE Human Cyp-B class I HLA widely expressed antigen peptide #1.
XX
KW Cell penetrating peptide; cancer; tumour; melanoma; thymoma; antigen;
KW lymphoma; sarcoma; lung cancer; non-Hodgkin's lymphoma; leukaemia;
KW Hodgkin's lymphoma; uterine cancer; cervical cancer; bladder cancer;
KW kidney cancer; adenocarcinoma; breast cancer; prostate cancer;
KW ovarian cancer; pancreatic cancer; epitope; vaccine; dendritic cell;
KW tumour infiltrating lymphocyte; TIL; human leukocyte antigen; HLA;
KW cytostatic; human.
XX
OS Homo sapiens.
XX
PN WO200264057-A2.
XX
PD 22-AUG-2002.
XX
PF 15-FEB-2002; 2002WO-US005212.
XX
PR 15-FEB-2001; 2001US-0268687P.
XX
PA (BAYU) BAYLOR COLLEGE MEDICINE.
XX
PI Wang R;
XX
DR WPI; 2002-627577/67.
XX
PT Novel composition for treating a disease in an animal, comprises an
PT immune effector cell and cell penetrating peptide associated with an
PT antigen or antibody.
XX
PS Disclosure; Page 17; 61pp; English.
XX
CC The invention relates to a composition (I) comprising an immune effector
CC cell and a cell penetrating peptide (CPP) associated with an antigen or
CC antibody. Also included are (1) a vaccine comprising (I), CPP associated
CC with an antigen, and a pharmaceutically acceptable carrier and (2)
CC preparing a composition for a disease, by providing (I) and CPP
CC associated with an antigen for disease, and introducing the antigen-
CC are, for example, tumour antigen derived epitopes recognised by tumour
CC infiltrating lymphocytes (TIL) of HLA (human leukocyte antigen) class I
CC or II. The composition is useful for enhancing immunity in an animal to a
CC disease, by administering a mature dendritic cell comprising CPP
CC associated with an antigen to disease, to the animal, such that following
CC the administration, animal is protected from disease, where the animal
CC comprises both CD4+ and CD8+ T cells. It is also useful for treating a
CC disease (e.g. cancer, tumour, melanoma, thymoma, lymphoma, sarcoma, lung
CC cancer, non-Hodgkin's lymphoma, leukaemia, Hodgkin's lymphoma, uterine
CC cancer, cervical cancer, bladder cancer, kidney cancer, adenocarcinoma,
CC breast cancer, prostate cancer, ovarian cancer and pancreatic cancer).
CC The animal is further subjected to a cancer treatment including surgery,
CC radiation, chemotherapy or gene therapy. The administration of (I),
CC preferably dendritic cell is prior to, subsequent to or concurrent with,
CC the cancer treatment. The present sequence is a tumour antigen derived
CC epitope for inclusion in the composition of the invention
XX
SQ Sequence 9 AA;

Query Match 92.3%; Score 36; DB 5; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;

Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KXHRVIKD 8
| | | | |
Db 1 KXHRVIKD 8

RESULT 8
ABR84373
ID ABR84373 standard; peptide; 9 AA.
XX
AC ABR84373;
XX
DT 06-NOV-2003 (first entry)
XX
DE Human CypB HLA-A24 epitope, SEQ ID NO:23.
XX
KW Antigen specific T-cell; detection; diagnosis; cancer specific T-cell;
KW cancer; tumour; cervical cancer; prostate cancer; cellular immunity;
KW immune therapy; cytostatic; immunostimulant; vaccine; antigenic peptide;
KW human; human leukocyte antigen; HLA-A24 epitope.
XX
OS Homo sapiens.
XX
PN JP2002365286-A.
XX
PD 18-DEC-2002.
XX
PF 18-SEP-2001; 2001JP-00283413.
XX
PR 13-NOV-2000; 2000JP-00345094.
XX
PA (ITOY/) ITO Y.
XX
DR WPI; 2003-508315/48.
XX
PT A detection method of antigen specific T-cells, comprises the use of
PT plural antigenic peptides, useful in semi-quantitative determination of
PT cancer specific T-cell frequencies and for monitoring cellular immunity.
XX
PS Example 8; Page 10; 18pp; Japanese.
XX
CC The invention relates to a method for the detection of antigen specific T
CC -cells in a blood sample involving the use of a plurality of antigenic
CC peptides. The method comprises sampling of peripheral blood monocytes;
CC stimulation of the collected peripheral blood monocytes with antigens
CC without direct use of antigen presenting cells; and detection of T-cells
CC specific to the antigen in the stimulated monocytes. The method is
CC particularly used for the detection of cancer as it can be used in semi-
CC quantitative determination of cancer specific T-cells. It can also be
CC used for cancer vaccine therapy for patients with cervical or prostate
CC cancer. The method can additionally be used to monitor of cellular
CC immunity and cancer immune therapy by detection of specific T-cell
CC frequencies. Sequences ABR84367-ABR84380 represent HLA-A24 (human
CC leukocyte antigen) peptides of human origin used in an example from the
CC invention
XX
SQ Sequence 9 AA;

Query Match 92.3%; Score 36; DB 6; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;

Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KXHRVIKD 8
| | | | |
Db 1 KXHRVIKD 8

RESULT 9
ADC17701
ID ADC17701 standard; peptide; 9 AA.
XX
AC ADC17701;

XX 18-DEC-2003 (first entry)
DT
XX
DE Cyclophilin B protein amino acids 84-92.
XX
KW cytostatic; antiallergic; vaccine; allergic reaction suppressor; antigen;
KW allergy; epitope; cancer; immunoglobulin E antibody; desensitization;
KW cyclophilin B.
XX
OS Synthetic.
XX
PN WO2003020306-A1.
XX
PD 13-MAR-2003.
XX
PF 28-AUG-2002; 2002WO-JP008641.
XX
PR 29-AUG-2001; 2001JP-00260046.
XX
PA (ITOH/) ITOH K.
XX
PI Itoh K, Yamada A;
XX
DR WPI; 2003-300831/29.
XX
PT Desensitizers or allergic reaction suppressors containing peptides
PT originating from the same antigenic substances as reaction-inducing
PT substances, useful for preventing or treating type I allergic diseases
PT and in cancer vaccines.
XX
PS Claim 8; SEQ ID NO 1; 49pp; Japanese.
XX
CC The invention relates to allergic reaction suppressors, comprising a
CC peptide which originates from the same antigenic substance as the
CC antigenic substance inducing the (peptide-originated) allergic reaction,
CC and containing an epitope different from the epitope participating in the
CC induction of the allergic reaction and yet does not induce the allergic
CC reaction. The desensitizers or allergic reaction suppressors are useful
CC for treating and preventing type I allergic diseases and in cancer
CC vaccines for preventing or treating cancer. The allergic reaction or
CC suppressors are also useful for suppressing an allergic reaction or
CC reducing immunoglobulin E antibody production, and for desensitization to
CC antigens. This sequence represents a peptide used in the invention and
CC corresponds to amino acids 84-92 of the cyclophilin B protein.
XX
SQ Sequence 9 AA;
Query Match 92.3%; Score 36; DB 7; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 KXHRVIKD 8
Db 1 KXHRVIKD 8
RESULT 10
ADG89641
ID ADG89641 standard; peptide; 9 AA.
XX
AC ADG89641;
XX
DT 11-MAR-2004 (first entry)
XX
DE Class I HLA-restricted widely expressed antigen #6.
XX
KW metastatic cancer cell differentiation; mutated fibronectin;
KW metastatic cancer; class I HLA-restricted; widely antigen.
XX
OS Unidentified.
XX
PN WO2003100027-A2.
XX

PD 04-DEC-2003.
XX
PF 28-MAY-2003; 2003WO-US016736.
XX
PR 28-MAY-2002; 2002US-0383530P.
XX
PA (BAYU) BAYLOR COLLEGE MEDICINE.
XX
PI Wang R;
XX
DR WPI; 2004-035134/03.
XX
PT Identifying a cell that differentiates into a metastatic cancer cell,
PT useful for preventing metastatic cancer, comprises identifying a mutated
PT fibronectin in the cell.
XX
PS Disclosure; SEQ ID NO 84; 137pp; English.
XX
CC The invention comprises a method for identifying a cell that will
CC differentiate into a metastatic cancer cell, the method involves
CC identifying a mutated fibronectin in the cell. The method of the
CC invention is useful for preventing metastatic cancer. The present amino
CC acid sequence represents a Class I HLA-restricted widely expressed
CC antigen.
XX
SQ Sequence 9 AA;
Query Match 92.3%; Score 36; DB 8; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 KXHRVIKD 8
Db 1 KXHRVIKD 8
RESULT 11
ABG94771
ID ABG94771 standard; peptide; 9 AA.
XX
AC ABG94771;
XX
DT 02-DEC-2002 (first entry)
XX
DE Replikin sequence identified by the 3-point recognition method #44.
XX
KW Replikin; glioma; malignin; anthrax; small pox; antiviral; antibacterial;
KW 3-point-recognition; vaccine; immunogen; Lethal Factor Protein pX01-107;
KW Surface Antigen S Precursor Protein.
XX
OS Polyoma virus.
XX
PN US2002120106-A1.
XX
PD 29-AUG-2002.
XX
PF 26-OCT-2001; 2001US-00984056.
XX
PR 04-SEP-1998; 98US-00146755.
PR 27-MAR-2001; 2001US-00817144.
PR 27-MAR-2001; 2001US-0278761P.
PR 09-JUL-2001; 2001US-0303396P.
XX
PA (BOGO/) BOGOCH S.
PA (BOGO/) BOGOCH E S.
XX
PI Bogoch S, Bogoch ES;
XX
DR WPI; 2002-691212/74.
XX
PT Isolated Bacillus anthracis and small pox virus peptides (I), also known
PT as replikins, useful for formulating vaccines for treating anthrax or
PT small pox, comprise 7 to 50 amino acids.

XX Disclosure; Page 3; 16pp; English.

PS The invention relates to isolated Bacillus anthracis and small pox virus

CC peptides, also known as replikins, comprising 7 to 50 amino acids

CC including at least one lysine residue located six to ten residues from a

CC second lysine residue, at least one histidine residue, and at least 6%

CC lysine residues. The peptides were identified using the 3-point-

CC recognition method and based on the replikin sequence isolated from

CC glioblastoma cells malignant peptide which is of non-human origin. Also

CC included are anti-replikin antibodies (or antibody cocktail), a method of

CC stimulating the immune system of a subject to produce antibodies to

CC Bacillus anthracis or small pox comprising administering an effective

CC amount of at least one or more Bacillus anthracis or small pox replikin

CC and an antisense nucleic acid molecule complementary to a mRNA encoding a

CC Bacillus anthracis polypeptide (e.g. Anthrax Lethal Factor Protein pX01-

CC 107) comprising a replikin sequence, an antisense nucleic acid molecule

CC complementary to a mRNA encoding a Small Pox Virus polypeptide (e.g.

CC Surface Antigen S Precursor Protein comprising a replikin sequence. The

CC peptides are useful for stimulating the immune system of a subject to

CC produce antibodies that bind specifically to Anthrax or small pox

CC polypeptides containing a replikin sequence. The peptides are useful for

CC generating antibodies that can be used in the treatment and/or prevention

CC of anthrax or small pox. The peptides are also useful for formulating

CC vaccines for treating anthrax or small pox. The present sequence is a

CC replikin sequence isolated by the 3-point-recognition system and sharing

CC structural similarity with the replikin sequence isolated from

CC glioblastoma cells malignant

XX

SQ Sequence 9 AA;

Query Match 71.8%; Score 28; DB 5; Length 9;

Best Local Similarity 62.5%; Pred. No. 1.7e+06;

Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KXHRVIKD 8

Db 1 KQHRELKD 8

RESULT 12

ABG94772

ID ABG94772 standard; peptide; 9 AA.

XX

AC ABG94772;

XX

DT 02-DEC-2002 (first entry)

XX

DE Replikin sequence identified by the 3-point recognition method #45.

XX

KW Replikin; glioma; malignant; anthrax; small pox; antiviral; antibacterial;

KW 3-point-recognition; vaccine; immunogen; Lethal Factor Protein pX01-107;

KW Surface Antigen S Precursor Protein.

XX

OS Polyoma virus.

XX

PN US2002120106-A1.

XX

PD 29-AUG-2002.

XX

PF 26-OCT-2001; 2001US-00984056.

XX

PR 04-SEP-1998; 98US-00146755.

PR 27-MAR-2001; 2001US-00817144.

PR 27-MAR-2001; 2001US-0278761P.

PR 09-JUL-2001; 2001US-0303396P.

XX

PA (BOGO/) BOGOCH S.

PA (BOGO/) BOGOCH E S.

XX

PI Bogoch S, Bogoch ES;

XX

DR WPI; 2002-691212/74.

XX Isolated Bacillus anthracis and small pox virus peptides (I), also known

PT as replikins, useful for formulating vaccines for treating anthrax or

PT small pox, comprise 7 to 50 amino acids.

XX

PS Disclosure; Page 3; 16pp; English.

XX

CC The invention relates to isolated Bacillus anthracis and small pox virus

CC peptides, also known as replikins, comprising 7 to 50 amino acids

CC including at least one lysine residue located six to ten residues from a

CC second lysine residue, at least one histidine residue, and at least 6%

CC lysine residues. The peptides were identified using the 3-point-

CC recognition method and based on the replikin sequence isolated from

CC glioblastoma cells malignant peptide which is of non-human origin. Also

CC included are anti-replikin antibodies (or antibody cocktail), a method of

CC stimulating the immune system of a subject to produce antibodies to

CC Bacillus anthracis or small pox comprising administering an effective

CC amount of at least one or more Bacillus anthracis or small pox replikin

CC and an antisense nucleic acid molecule complementary to a mRNA encoding a

CC Bacillus anthracis polypeptide (e.g. Anthrax Lethal Factor Protein pX01-

CC 107) comprising a replikin sequence, an antisense nucleic acid molecule

CC complementary to a mRNA encoding a Small Pox Virus polypeptide (e.g.

CC Surface Antigen S Precursor Protein comprising a replikin sequence. The

CC peptides are useful for stimulating the immune system of a subject to

CC produce antibodies that bind specifically to Anthrax or small pox

CC polypeptides containing a replikin sequence. The peptides are useful for

CC generating antibodies that can be used in the treatment and/or prevention

CC of anthrax or small pox. The peptides are also useful for formulating

CC vaccines for treating anthrax or small pox. The present sequence is a

CC replikin sequence isolated by the 3-point-recognition system and sharing

CC structural similarity with the replikin sequence isolated from

CC glioblastoma cells malignant

XX

SQ Sequence 9 AA;

Query Match 71.8%; Score 28; DB 5; Length 9;

Best Local Similarity 62.5%; Pred. No. 1.7e+06;

Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KXHRVIKD 8

Db 1 KQHRELKD 8

RESULT 13

ABU57321

ID ABU57321 standard; peptide; 9 AA.

XX

AC ABU57321;

XX

DT 08-APR-2003 (first entry)

XX

DE Replikin peptide sequence #61.

XX

KW Replikin; immunostimulant; vaccine; recognin.

XX

OS Polyomavirus sp.

XX

PN US2002151677-A1.

XX

PD 17-OCT-2002.

XX

PF 26-OCT-2001; 2001US-00984057.

XX

PR 27-MAR-2001; 2001US-0278761P.

PR 09-JUL-2001; 2001US-0303396P.

XX

PA (BOGO/) BOGOCH S.

PA (BOGO/) BOGOCH E S.

XX

PI Bogoch S, Bogoch ES;

XX

DR WPI; 2003-182530/18.

XX New replikins or recognin peptides, useful for stimulating the immune
PT system, and for targeting, labeling or destroying replikin-containing
PT organisms.
XX Claim 78; Page 3; 17pp; English.
XX The invention describes an isolated replikin or recognin peptide (I)
CC comprising 7-50 amino acids including at least one lysine residue located
CC 6 to 10 residues from a second lysine residue, at least one histidine
CC residue and at least 6% lysine residues. The peptides are useful for
CC stimulating the immune system, and for targeting, labelling or destroying
CC replikin-containing organisms. The computer-readable mediums are useful
CC for identifying a protein or peptide containing a replikin or recognin
CC sequence. This is the amino acid sequence of a replikin peptide
CC identified in the invention
XX
SQ Sequence 9 AA;
Query Match 71.8%; Score 28; DB 6; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.7e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1 KXHRVIKD 8
Db 1 KQHRELKD 8
RESULT 14
ABU57322
ID ABU57322 standard; peptide; 9 AA.
XX
AC ABU57322;
XX
XX 08-APR-2003 (first entry)
XX Replikin peptide sequence #62.
DE
XX Replikin; immunostimulant; vaccine; recognin.
KW
XX Polyomavirus sp.
OS
XX US2002151677-A1.
PN
XX 17-OCT-2002.
PD
XX 26-OCT-2001; 2001US-00984057.
PF
XX 27-MAR-2001; 2001US-0278761P.
PR
XX 09-JUL-2001; 2001US-0303396P.
PR
XX (BOGO/) BOGOCH S.
PA
XX (BOGO/) BOGOCH E S.
PA
XX Bogoch S, Bogoch ES;
PI
XX WPI; 2003-182530/18.
DR
XX New replikins or recognin peptides, useful for stimulating the immune
PT system, and for targeting, labeling or destroying replikin-containing
PT organisms.
XX
XX Claim 79; Page 3; 17pp; English.
PS
XX The invention describes an isolated replikin or recognin peptide (I)
CC comprising 7-50 amino acids including at least one lysine residue located
CC 6 to 10 residues from a second lysine residue, at least one histidine
CC residue and at least 6% lysine residues. The peptides are useful for
CC stimulating the immune system, and for targeting, labelling or destroying
CC replikin-containing organisms. The computer-readable mediums are useful
CC for identifying a protein or peptide containing a replikin or recognin
CC sequence. This is the amino acid sequence of a replikin peptide
CC identified in the invention

XX
SQ Sequence 9 AA;
Query Match 71.8%; Score 28; DB 6; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.7e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1 KXHRVIKD 8
Db 1 KQHRELKD 8
RESULT 15
ADD88394
ID ADD88394 standard; peptide; 9 AA.
XX
AC ADD88394;
XX
XX 29-JAN-2004 (first entry)
DT
XX Tumour viral Replikin #14.
DE
XX vaccine; gene therapy; malaria; influenza; Replikin; haemagglutinin.
KW
XX Polyomavirus.
OS
XX US2003180328-A1.
PN
XX 25-SEP-2003.
PD
XX 26-MAR-2002; 2002US-00105232.
PF
XX 27-MAR-2001; 2001US-0278761P.
PR
XX 09-JUL-2001; 2001US-0303396P.
PR
XX 26-OCT-2001; 2001US-00984057.
PR
XX (BOGO/) BOGOCH S.
PA
XX (BOGO/) BOGOCH E S.
PA
XX Bogoch S, Bogoch ES;
PI
XX WPI; 2003-852213/79.
DR
XX New Replikin peptides of Plasmodium falciparum or influenza virus, useful
PT for diagnosing, preventing or treating influenza virus infection or
PT malaria.
XX
XX Disclosure; SEQ ID NO 61; 136pp; English.
PS
XX The invention relates to an isolated Plasmodium falciparum peptide or an
CC influenza virus peptide. The composition and methods are useful in
CC diagnosing, preventing or treating influenza virus infection or malaria.
CC Also disclosed is an influenza virus vaccine comprising at least one
CC isolated Replikin present in the haemagglutinin protein of an emerging
CC strain of influenza virus and a pharmaceutical carrier and/or adjuvant
CC and a malaria vaccine comprising at least one isolated P. falciparum
CC Replikin and a pharmaceutical carrier. The present sequence represents
CC the amino acid sequence of a Replikin sequence.
XX
SQ Sequence 9 AA;
Query Match 71.8%; Score 28; DB 7; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.7e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1 KXHRVIKD 8
Db 1 KQHRELKD 8
Search completed: October 21, 2004, 07:20:58
Job time : 86 secs

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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:13:10 ; Search time 21.5 Seconds
(without alignments)
27.761 Million cell updates/sec

Title: US-09-720-469A-37
Perfect score: 39
Sequence: 1 KXHRVIKDX 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 130155

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	27	69.2	12	2	US-08-471-286-1
2	25	64.1	11	1	US-08-378-761A-68
3	25	64.1	11	1	US-08-485-286-68
4	25	64.1	12	4	US-10-037-311B-16
5	23	59.0	10	3	US-08-836-075A-204
6	22	56.4	11	4	US-09-418-780A-14
7	22	56.4	11	4	US-09-418-780A-22
8	22	56.4	12	1	US-07-778-233B-29
9	22	56.4	12	1	US-07-963-321-29
10	22	56.4	12	1	US-08-290-641-29
11	22	56.4	12	1	US-08-548-540-29
12	22	56.4	12	5	PCT-US96-09809-29
13	21	53.8	10	1	US-08-397-633A-93
14	21	53.8	10	3	US-09-105-839D-72
15	21	53.8	10	4	US-09-344-040C-114
16	21	53.8	10	4	US-09-833-039A-114
17	21	53.8	12	1	US-07-778-233B-28
18	21	53.8	12	1	US-07-778-233B-57
19	21	53.8	12	1	US-07-963-321-57
20	21	53.8	12	1	US-07-963-321-57
21	21	53.8	12	1	US-08-290-641-28
22	21	53.8	12	1	US-08-290-641-57
23	21	53.8	12	1	US-08-548-540-28
24	21	53.8	12	1	US-08-548-540-57
25	21	53.8	12	5	PCT-US96-09809-28
26	21	53.8	12	5	PCT-US96-09809-57
27	20	51.3	7	4	US-09-057-363C-26

28	20	51.3	7	4	US-09-265-107-26	Sequence 26, Appl
29	20	51.3	8	3	US-08-893-534A-46	Sequence 46, Appl
30	20	51.3	8	3	US-08-996-679-46	Sequence 46, Appl
31	20	51.3	8	3	US-09-115-395-76	Sequence 76, Appl
32	20	51.3	8	3	US-09-507-102-46	Sequence 46, Appl
33	20	51.3	8	3	US-09-250-059-48	Sequence 48, Appl
34	20	51.3	8	3	US-09-248-074-48	Sequence 48, Appl
35	20	51.3	8	4	US-09-357-717-30	Sequence 30, Appl
36	20	51.3	8	4	US-09-458-870-48	Sequence 48, Appl
37	20	51.3	8	4	US-09-248-015-60	Sequence 60, Appl
38	20	51.3	8	4	US-09-544-782-48	Sequence 48, Appl
39	20	51.3	8	4	US-09-234-395-314	Sequence 314, App
40	20	51.3	8	4	US-09-305-928-314	Sequence 314, App
41	20	51.3	8	4	US-10-058-821-30	Sequence 30, Appl
42	20	51.3	10	2	US-08-556-597-122	Sequence 122, App
43	20	51.3	10	3	US-08-836-075A-205	Sequence 205, App
44	20	51.3	11	6	5210075-43	Patent No. 5210075
45	20	51.3	12	3	US-08-742-243-6	Sequence 6, Appl

ALIGNMENTS

RESULT 1
US-08-471-286-1
; Sequence 1, Application US/08471286
; Patent No. 5866688
; GENERAL INFORMATION:
; APPLICANT: Kim, Hyesook
; APPLICANT: Charnecki, Jonathan
; APPLICANT: Putt, David A.
; APPLICANT: Kim, Edward Y.
; TITLE OF INVENTION: PRODUCTION OF ANTI-PEPTIDE ANTIBODIES
; TITLE OF INVENTION: AGAINST CYTOCHROME P450
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Reising, Ethington, Barnard & Perry
; STREET: P.O. Box 4390
; CITY: Troy
; STATE: Michigan
; COUNTRY: US
; ZIP: 48099-4390
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/471,286
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Kohn, Kenneth I.
; REGISTRATION NUMBER: 30,955
; REFERENCE/DOCKET NUMBER: P-301 (Oxford)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (810) 689-3500
; TELEFAX: (810) 689-4071
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-471-286-1

Query Match 69.2%; Score 27; DB 2; Length 12;
Best Local Similarity 83.3%; Pred. No. 17;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 3 HRVIKD 8
Db 7 HRVTKD 12

```
RESULT 2
US-08-378-761A-68
; Sequence 68, Application US/08378761A
; Patent No. 5635384
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; TITLE OF INVENTION: USING
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/378,761A
; FILING DATE: 26-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-378-761A-68

Query Match 64.1%; Score 25; DB 1; Length 11;
Best Local Similarity 62.5%; Pred. No. 41;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KXHRVVKD 8
Db 3 KKARVVVKD 10

RESULT 3
US-08-485-286-68
; Sequence 68, Application US/08485286
; Patent No. 5646026
; Patent No. 5646026 5646119
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; TITLE OF INVENTION: USING
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US

Query Match 64.1%; Score 25; DB 1; Length 11;
Best Local Similarity 62.5%; Pred. No. 41;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KXHRVVKD 8
Db 3 KKARVVVKD 10

RESULT 4
US-10-037-311B-16
; Sequence 16, Application US/10037311B
; Patent No. 6747190
; GENERAL INFORMATION:
; APPLICANT: MICHIGAN STATE UNIVERSITY
; TITLE OF INVENTION: XYLOGLYCAN FUCOSYLTRANSFERASES
; FILE REFERENCE: MS00-001C2
; CURRENT APPLICATION NUMBER: US/10/037,311B
; CURRENT FILING DATE: 2001-11-09
; PRIOR APPLICATION NUMBER: US60/117,555
; PRIOR FILING DATE: 1999-01-28
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Cross-species
US-10-037-311B-16

Query Match 64.1%; Score 25; DB 4; Length 12;
Best Local Similarity 66.7%; Pred. No. 45;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 HRVIKD 8
Db 6 HQVIRD 11

RESULT 5
US-08-836-075A-204
; Sequence 204, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
```

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; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/485,286
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/378761
; FILING DATE: 26-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-485-286-68

Query Match 64.1%; Score 25; DB 1; Length 11;
Best Local Similarity 62.5%; Pred. No. 41;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KXHRVVKD 8
Db 3 KKARVVVKD 10

RESULT 4
US-10-037-311B-16
; Sequence 16, Application US/10037311B
; Patent No. 6747190
; GENERAL INFORMATION:
; APPLICANT: MICHIGAN STATE UNIVERSITY
; TITLE OF INVENTION: XYLOGLYCAN FUCOSYLTRANSFERASES
; FILE REFERENCE: MS00-001C2
; CURRENT APPLICATION NUMBER: US/10/037,311B
; CURRENT FILING DATE: 2001-11-09
; PRIOR APPLICATION NUMBER: US60/117,555
; PRIOR FILING DATE: 1999-01-28
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Cross-species
US-10-037-311B-16

Query Match 64.1%; Score 25; DB 4; Length 12;
Best Local Similarity 66.7%; Pred. No. 45;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 HRVIKD 8
Db 6 HQVIRD 11

RESULT 5
US-08-836-075A-204
; Sequence 204, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
```


;; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
;; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
;; NUMBER OF SEQUENCES: 207
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: ARNOLD, WHITE & DURKEE
;; STREET: P.O. BOX 4433
;; CITY: HOUSTON
;; STATE: TEXAS
;; COUNTRY: USA
;; ZIP: 77210-4433
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Microsoft Word 6.0 / ASCII text output
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/836,075A
;; FILING DATE: 21 Apr 1997
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: PCT/EP95/04155
;; FILING DATE: 23 Oct 1995
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: EP 94870166.9
;; FILING DATE: 21 Oct 1994
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: EP 95870076.7
;; FILING DATE: 28 Jun 1995
;; ATTORNEY/AGENT INFORMATION:
;; NAME: KAMMERER, PATRICIA A.
;; REGISTRATION NUMBER: 29,775
;; REFERENCE/DOCKET NUMBER: INNS:004
;; INFORMATION FOR SEQ ID NO: 204:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 10 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
US-08-836-075A-204

Query Match 59.0%; Score 23; DB 3; Length 10;
Best Local Similarity 50.0%; Pred. No. 99;
Matches 4; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 KXHRVIKD 8
|:|:
Db 3 KYHQVTQD 10

RESULT 6
US-09-418-780A-14
; Sequence 14, Application US/09418780A
; Patent No. 6504009
; GENERAL INFORMATION:
; APPLICANT: Jones, Michael H.
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
; FILE REFERENCE: 06501-043001
; CURRENT APPLICATION NUMBER: US/09/418,780A
; CURRENT FILING DATE: 1999-10-15
; PRIOR APPLICATION NUMBER: PCT/JP98/01782
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: JAPAN 9/116402
; PRIOR FILING DATE: 1997-04-18
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-418-780A-14

Query Match 56.4%; Score 22; DB 4; Length 11;
Best Local Similarity 60.0%; Pred. No. 1.8e+02;

Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 3 HRVIK 7
|:|:
Db 2 HKIHK 6
RESULT 7
US-09-418-780A-22
; Sequence 22, Application US/09418780A
; Patent No. 6504009
; GENERAL INFORMATION:
; APPLICANT: Jones, Michael H.
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
; FILE REFERENCE: 06501-043001
; CURRENT APPLICATION NUMBER: US/09/418,780A
; CURRENT FILING DATE: 1999-10-15
; PRIOR APPLICATION NUMBER: PCT/JP98/01782
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: JAPAN 9/116402
; PRIOR FILING DATE: 1997-04-18
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-418-780A-22

Query Match 56.4%; Score 22; DB 4; Length 11;
Best Local Similarity 60.0%; Pred. No. 1.8e+02;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 HRVIK 7
|:|:
Db 2 HKIHK 6

RESULT 8
US-07-778-233B-29
; Sequence 29, Application US/07778233B
; Patent No. 5270170
; GENERAL INFORMATION:
; APPLICANT: Schatz, Peter J.
; APPLICANT: Cull, Millard G.
; APPLICANT: Miller, Jeff F.
; TITLE OF INVENTION: Peptide Library and Screening Method
; NUMBER OF SEQUENCES: 78
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: William M. Smith
; STREET: One Market Plaza, Steuart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/778,233B
; FILING DATE: 19911016
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, William M.
; REGISTRATION NUMBER: 30,223
; REFERENCE/DOCKET NUMBER: 11509-50
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:

LENGTH: 12 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
CLONE: 26 4 0.8
US-07-778-233B-29

Query Match 56.4%; Score 22; DB 1; Length 12;
Best Local Similarity 60.0%; Pred. No. 1.9e+02;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 HRVIK 7
|||:
Db 6 HRVVR 10

RESULT 9

US-07-963-321-29
Sequence 29, Application US/079633321
Patent No. 5338665

GENERAL INFORMATION:
APPLICANT: Schatz, Peter J.
APPLICANT: Cull, Millard G.
APPLICANT: Miller, Jeff F.
APPLICANT: Stemmer, Willem P.C.
TITLE OF INVENTION: Peptide Library and Screening Method
NUMBER OF SEQUENCES: 91
CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/963,321
FILING DATE: 19921015
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/778,223
FILING DATE: 16-OCT-1991
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 11509-50-1
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422

INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
CLONE: 26 4 0.8
US-07-963-321-29

Query Match 56.4%; Score 22; DB 1; Length 12;
Best Local Similarity 60.0%; Pred. No. 1.9e+02;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 HRVIK 7
|||:
Db 6 HRVVR 10

RESULT 10

US-08-290-641-29
Sequence 29, Application US/08290641
Patent No. 5498530

GENERAL INFORMATION:
APPLICANT: Schatz, Peter J.
APPLICANT: Cull, Millard G.
APPLICANT: Miller, Jeff F.
APPLICANT: Stemmer, Willem P.C.
TITLE OF INVENTION: Peptide Library and Screening Method
NUMBER OF SEQUENCES: 91
CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,641
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/963,321
FILING DATE: 15-OCT-1992
APPLICATION NUMBER: US 07/778,223
FILING DATE: 16-OCT-1991
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 11509-50-1
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422

INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
CLONE: 26 4 0.8
US-08-290-641-29

Query Match 56.4%; Score 22; DB 1; Length 12;
Best Local Similarity 60.0%; Pred. No. 1.9e+02;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 HRVIK 7
|||:
Db 6 HRVVR 10

RESULT 11

US-08-548-540-29
Sequence 29, Application US/08548540
Patent No. 5733731

GENERAL INFORMATION:
APPLICANT: Schatz, Peter J.
APPLICANT: Cull, Millard G.
APPLICANT: Miller, Jeff F.
APPLICANT: Stemmer, Willem P.C.
TITLE OF INVENTION: Peptide Library and Screening Method
NUMBER OF SEQUENCES: 162

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: William M. Smith
; STREET: One Market Plaza, Steuart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/548,540
; FILING DATE: 26-OCT-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/290,641
; FILING DATE: 15-AUG-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/963,321
; FILING DATE: 15-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, William M.
; REGISTRATION NUMBER: 30,223
; REFERENCE/DOCKET NUMBER: 16528J-001240US
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; CLONE: 26 4 0.8
; US-08-548-540-29

Query Match 56.4%; Score 22; DB 1; Length 12;
Best Local Similarity 60.0%; Pred. No. 1.9e+02;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 HRVIK 7
|||::
Db 6 HRVVR 10

RESULT 12
PCT-US96-09809-29
; Sequence 29, Application PC/TUS9609809
; GENERAL INFORMATION:
; APPLICANT: Schatz, Peter J.
; APPLICANT: Cull, Millard G.
; APPLICANT: Miller, Jeff F.
; APPLICANT: Stemmer, Willem P.C.
; APPLICANT: Gates, Christian M.
; TITLE OF INVENTION: Peptide Library and Screening Method
; NUMBER OF SEQUENCES: 162
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: William M. Smith
; STREET: One Market Plaza, Steuart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US96/09809
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/548,540
; FILING DATE: 26-OCT-1995
; APPLICATION NUMBER: US 08/290,641
; FILING DATE: 15-AUG-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/963,321
; FILING DATE: 15-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, William M.
; REGISTRATION NUMBER: 30,223
; REFERENCE/DOCKET NUMBER: 16528J-001240US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; CLONE: 26 4 0.8
; PCT-US96-09809-29

Query Match 56.4%; Score 22; DB 5; Length 12;
Best Local Similarity 60.0%; Pred. No. 1.9e+02;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 HRVIK 7
|||::
Db 6 HRVVR 10

RESULT 13
US-08-397-633A-93
; Sequence 93, Application US/08397633A
; Patent No. 5773577
; GENERAL INFORMATION:
; APPLICANT: Cappello, Joseph
; TITLE OF INVENTION: PRODUCTS COMPRISING SUBSTRATESCAPABLE
; TITLE OF INVENTION: OF ENZYMATIC CROSS-LINKING
; NUMBER OF SEQUENCES: 105
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/397,633A
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Rowland, Bertram I
; REGISTRATION NUMBER: 20,015
; REFERENCE/DOCKET NUMBER: A-58848-1/BIR PROP-011-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 93:
; SEQUENCE CHARACTERISTICS:

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; LENGTH: 10 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-397-633A-93

Query Match      53.8%; Score 21; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 HRVI 6
      ||||
Db      6 HRVI 9

RESULT 14
US-09-105-839D-72
; Sequence 72, Application US/09105839D
; Patent No. 6287756
; GENERAL INFORMATION:
; APPLICANT: Tureci, Ozlem
; APPLICANT: Chen, Yao-Tseng
; APPLICANT: Sahin, Ugur
; APPLICANT: Gure, Ali
; APPLICANT: Old, Lloyd J
; APPLICANT: Pfreundschuh, Michael
; TITLE OF INVENTION: Method for Determining Presence of Cancer In A Sample By Determin
; TITLE OF INVENTION: Expression of an SSX gene
; FILE REFERENCE: LUD 5556
; CURRENT APPLICATION NUMBER: US/09/105,839D
; CURRENT FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: US 08/851,130
; PRIOR FILING DATE: 1997-05-05
; NUMBER OF SEQ ID NOS: 72
; SEQ ID NO 72
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-105-839D-72
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Query Match      53.8%; Score 21; DB 3; Length 10;
Best Local Similarity 50.0%; Pred. No. 2.6e+02;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 KXHRVI 6
      :|||:|
Db      5 RLHRII 10

RESULT 15
US-09-344-040C-114
; Sequence 114, Application US/09344040C
; Patent No. 6548064
; GENERAL INFORMATION:
; APPLICANT: Tureci, Ozlem
; APPLICANT: Sahin, Ugur
; APPLICANT: Pfreundschuh, Michael
; APPLICANT: Ramensee, Hans Georg
; APPLICANT: Stevanovic, Stefan
; TITLE OF INVENTION: Method for Determining Presence of Cancer In a Sample By Determin
; TITLE OF INVENTION: Expression of an SSX Gene, Peptides Derived From Said SSX Gene a
; TITLE OF INVENTION: Gene, and Uses Thereof
; FILE REFERENCE: LUD 5556.1
; CURRENT APPLICATION NUMBER: US/09/344,040C
; CURRENT FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/105,839
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: US 08/851,130
; PRIOR FILING DATE: 1997-05-05
; NUMBER OF SEQ ID NOS: 132
; SEQ ID NO 114
; LENGTH: 10
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-344-040C-114

Query Match      53.8%; Score 21; DB 4; Length 10;
Best Local Similarity 50.0%; Pred. No. 2.6e+02;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 KXHRVI 6
      :|||:|
Db      5 RLHRII 10

Search completed: October 21, 2004, 07:29:28
Job time : 22.5 secs
```

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:12:54 ; Search time 15.75 Seconds
(without alignments)
54.981 Million cell updates/sec

Title: US-09-720-469A-37
Perfect score: 39
Sequence: 1 KXHRVVKDX 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 1582

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR_79.*
1: piri.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	16	41.0	10	2	B39308
3	15	38.5	11	4	I52708
4	15	38.5	12	2	PT0228
5	15	38.5	12	2	PC4377
6	14	35.9	7	2	PT0246
7	14	35.9	9	2	S78420
8	14	35.9	10	2	B56899
9	14	35.9	11	2	PQ0733
10	14	35.9	12	2	S09082
11	13	33.3	6	2	S02617
12	13	33.3	6	2	B56979
13	13	33.3	7	2	PT0520
14	13	33.3	8	2	S65381
15	13	33.3	8	2	S69165
16	13	33.3	9	2	T31612
17	13	33.3	9	2	A42266
18	13	33.3	9	2	A60427
19	13	33.3	9	2	S39437
20	13	33.3	10	2	S13224
21	13	33.3	10	2	T14212
22	13	33.3	10	2	S23307
23	13	33.3	10	2	S23186
24	13	33.3	11	2	S23364
25	13	33.3	12	2	C30503
26	12	30.8	7	2	I46968
27	12	30.8	9	2	B45796
28	12	30.8	9	2	A61102
29	12	30.8	9	2	PS0253

30	12	30.8	9	2	A56029
31	12	30.8	10	2	JN0440
32	12	30.8	10	2	S77980
33	12	30.8	10	2	A30823
34	12	30.8	11	2	H54346
35	12	30.8	11	2	S78765
36	12	30.8	12	2	C34135
37	12	30.8	12	2	S65730
38	12	30.8	12	2	S21163
39	12	30.8	12	2	PQ0730
40	11	28.2	6	2	S11024
41	11	28.2	6	2	B44510
42	11	28.2	7	2	S57274
43	11	28.2	8	2	PT0298
44	11	28.2	8	2	A35768
45	11	28.2	9	2	I54379

N-methylpurine DNA
peptide-N4-(N-acet
cytochrome-c oxida
bothropstoxin - ja
pyruvate synthase
ribosomal protein
DNA-binding protei
hemoglobin, extrac
NAD ADP-ribosyltra
unidentified 5.4/3
hydrogensulfite re
hypothetical prote
triacylglycerol li
ig heavy chain CRD
T-cell receptor al
gene NF2 protein -

ALIGNMENTS

RESULT 1

PC4374
telomeric and tetraplex DNA binding protein qTBP42 IV - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 28-Oct-1997 #sequence_revision 28-Oct-1997 #text_change 07-May-1999
C;Accession: PC4374
R;Sarig, G.; Weisman-Shomer, P.; Fry, M.
Biochem. Biophys. Res. Commun. 237, 617-623, 1997
A;Title: Telomeric and tetraplex DNA binding properties of qTBP42: A homologue of the CA
A;Reference number: PC4371; MUID:97445086; PMID:9299414
A;Accession: PC4374
A;Molecule type: protein
A;Residues: 1-10 <SAR>
C;Comment: This protein binds either strand of the telomeric DNA as well as unimolecular

Query Match 46.2%; Score 18; DB 2; Length 10;
Best Local Similarity 60.0%; Pred. No. 9e+02;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KXHRV 5
Db 6 KEHRL 10

RESULT 2

B39308
glycine reductase (EC 1.4.99.-) sulfhydryl protein C, beta chain - Clostridium sticklandii
C;Species: Clostridium sticklandii
C;Date: 19-Jun-1992 #sequence_revision 19-Jun-1992 #text_change 09-Jul-2004
C;Accession: B39308
R;Stadtman, T.C.; Davis, J.N.
J. Biol. Chem. 266, 22147-22153, 1991
A;Title: Glycine reductase protein C. Properties and characterization of its role in the
A;Reference number: A39308; MUID:92042141; PMID:1939235
A;Accession: B39308
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <STA>
A;Cross-references: UNIPROT:Q9EV92
C;Function:
A;Description: glycine reductase complex catalyzes the reductive deamination of glycine t
C;Keywords: Atp; oxidoreductase

Query Match 41.0%; Score 16; DB 2; Length 10;
Best Local Similarity 50.0%; Pred. No. 2.5e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIKD 8
Db 4 NKVIAD 9

RESULT 3
I52708
ELAV-like neuronal protein 1, truncated splice form - human
N;Alternate names: Drosophila ELAV(embryonic lethal, abnormal vision)-like 4; Hu antigen
C;Species: Homo sapiens (man)
C;Date: 18-Aug-2000 #sequence_revision 18-Aug-2000 #text_change 09-Jul-2004
C;Accession: I52708
R;Sekido, Y.; Bader, S.A.; Carbone, D.P.; Johnson, B.E.; Minna, J.D.
Cancer Res. 54, 4988-4992, 1994
A;Title: Molecular analysis of the HuD gene encoding a paraneoplastic encephalomyelitis
A;Reference number: I52708; MUID:94349312; PMID:8069866
A;Accession: I52708
A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-11 <SEK>
A;Cross-references: UNIPROT:Q16234; GB:S73887; NID:G688242; PIDN:AAD14142.1; PID:G426184
C;Comment: This abnormal peptide is expressed. For the long splice form, see PIR:I38726.
C;Genetics:
A;Gene: GDB:ELAVL4; HUD; PNEM
A;Cross-references: GDB:141875; OMIM:168360
A;Map position: lp36-lp36
C;Keywords: alternative splicing

Query Match 38.5%; Score 15; DB 4; Length 11;
Best Local Similarity 50.0%; Pred. No. 4.5e+03;
Matches 2; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 RVIK 7
|:|
Db 6 RILK 9

RESULT 4
PT0228
Ig heavy chain CDR3 region (clone 1-112) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0228
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and
A;Reference number: PT0222; MUID:91108337; PMID:1899102
A;Accession: PT0228
A;Molecule type: DNA
A;Residues: 1-12 <YAM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin

Query Match 38.5%; Score 15; DB 2; Length 12;
Best Local Similarity 40.0%; Pred. No. 4.9e+03;
Matches 2; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 4 RVIKD 8
|:|
Db 2 RYVRD 6

RESULT 5
PC4377
telomeric and tetraplex DNA binding protein qTBP42 VIII - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 28-Oct-1997 #sequence_revision 28-Oct-1997 #text_change 09-Jul-2004
C;Accession: PC4377
R;Sarig, G.; Weisman-Shomer, P.; Fry, M.
Biochem. Biophys. Res. Commun. 237, 617-623, 1997
A;Title: Telomeric and tetraplex DNA binding properties of qTBP42: A homologue of the CA
A;Reference number: PC4371; MUID:97445086; PMID:9299414
A;Accession: PC4377
A;Molecule type: protein
A;Residues: 1-12 <SAR>
A;Cross-references: UNIPROT:Q9QX80; UNIPROT:Q9Z0U8; UNIPROT:O88311; UNIPROT:Q9QX81
C;Comment: This protein binds either strand of the telomeric DNA as well as unimolecular

Query Match 38.5%; Score 15; DB 2; Length 12;
Best Local Similarity 60.0%; Pred. No. 4.9e+03;
Matches 3; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 KXHRV 5
|:|
Db 3 KFHTV 7
RESULT 6
PT0246
Ig heavy chain CDR3 region (clone 2-103D) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0246
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and
A;Reference number: PT0222; MUID:91108337; PMID:1899102
A;Accession: PT0246
A;Molecule type: DNA
A;Residues: 1-7 <YAM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin

Query Match 35.9%; Score 14; DB 2; Length 7;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVI 6
|:|
Db 1 HEVL 4

RESULT 7
S78420
ribosomal protein RL41, mitochondrial [validated] - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 25-Feb-1998 #sequence_revision 13-Mar-1998 #text_change 21-Jul-2000
C;Accession: S78420
R;Goldschmidt-Reisin, S.; Graack, H.R.
submitted to the Protein Sequence Database, February 1998
A;Reference number: S78411
A;Accession: S78420
A;Molecule type: protein
A;Residues: 1-9 <GOL>
A;Note: the protein is designated as mitochondrial ribosomal protein L41
C;Keywords: mitochondrion; protein biosynthesis; ribosome

Query Match 35.9%; Score 14; DB 2; Length 9;
Best Local Similarity 66.7%; Pred. No. 2.8e+05;
Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 HRV 5
|:|
Db 5 HRL 7

RESULT 8
B56899
serum heterodimer, 24K chain - sandbar shark (fragment)
C;Species: Carcharhinus plumbeus (sandbar shark)
C;Date: 11-Aug-1995 #sequence_revision 11-Aug-1995 #text_change 09-Jul-2004
C;Accession: B56899
R;Vazquez-Moreno, L.; Porath, J.; Schluter, S.F.; Marchalonis, J.J.
Comp. Biochem. Physiol. B 103, 563-568, 1992
A;Title: Purification of a novel heterodimer from shark (Carcharhinus plumbeus) serum by
A;Reference number: A56899; MUID:93092592; PMID:1458832
A;Accession: B56899
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <VAZ>
A;Cross-references: UNIPROT:Q7LZJ7

C;Keywords: glycoprotein; plasma

Query Match 35.9%; Score 14; DB 2; Length 10;
Best Local Similarity 40.0%; Pred. No. 6.7e+03;
Matches 2; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 4 RVIKD 8
|||:
Db 6 RVVNE 10

RESULT 9

PQ0733
unidentified 6.0/15K protein [imported] - rice (fragment)
C;Species: Oryza sativa (rice)
C;Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 20-Apr-2000
C;Accession: PQ0733
R;Komatsu, S.; Kajiwara, H.; Hirano, H.
Theor. Appl. Genet. 86, 935-942, 1993
A;Title: A rice protein library; a data-file of rice proteins separated by two-dimension
A;Reference number: PQ0696
A;Accession: PQ0733
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-11 <KOM>

Query Match 35.9%; Score 14; DB 2; Length 11;
Best Local Similarity 50.0%; Pred. No. 7.4e+03;
Matches 2; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVI 6
|:|
Db 1 HTII 4

RESULT 10

S09082
proteasome chain 1 - rat (fragment)
N;Alternate names: multicatalytic proteinase chain 1
C;Species: Rattus norvegicus (Norway rat)
C;Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 21-Aug-1998
C;Accession: S09082
R;Lilley, K.S.; Davison, M.D.; Rivett, A.J.
FEBS Lett. 262, 327-329, 1990
A;Title: N-terminal sequence similarities between components of the multicatalytic prote
A;Reference number: S09082; MUID:90242957; PMID:2335214
A;Accession: S09082
A;Molecule type: protein
A;Residues: 1-12 <LIL>
C;Superfamily: multicatalytic endopeptidase complex chain C9

Query Match 35.9%; Score 14; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 8e+03;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 VIKD 8
|||
Db 7 VYKD 10

RESULT 11

S02617
alcohol dehydrogenase (EC 1.1.1.1) chl - horse (fragment)
C;Species: Equus caballus (domestic horse)
C;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_change 09-Jul-2004
C;Accession: S02617
R;Fairwell, T.; Julia, P.; Kaiser, R.; Holmquist, B.; Pares, X.; Vallee, B.L.; Joernvall
FEBS Lett. 222, 99-103, 1987
A;Title: Acetylated N-terminal structures of class III alcohol dehydrogenases. Differend
A;Reference number: S02617; MUID:88005160; PMID:3653405
A;Accession: S02617
A;Molecule type: protein
A;Residues: 1-6 <FAI>

A;Cross-references: UNIPROT:P19854
C;Superfamily: alcohol dehydrogenase; long-chain alcohol dehydrogenase homology
C;Keywords: alcohol metabolism; NAD; oxidoreductase

Query Match 33.3%; Score 13; DB 2; Length 6;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 VIK 7
|||
Db 4 VIK 6

RESULT 12

B56979
collagen alpha 1(II) chain - bovine (fragment)
N;Alternate names: collagen alpha 3(XI) chain
C;Species: Bos primigenius taurus (cattle)
C;Date: 03-Oct-1995 #sequence_revision 03-Oct-1995 #text_change 03-Oct-1995
C;Accession: B56979
R;Wu, J.J.; Eyre, D.R.
J. Biol. Chem. 270, 18865-18870, 1995
A;Title: Structural analysis of cross-linking domains in cartilage type XI collagen. Insi
A;Reference number: A56978; MUID:95370194; PMID:7642541
A;Accession: B56979
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-6 <WUA>
A;Note: the residue designated "X" is modified Lysine in collagen 1(II) some cross-linked

Query Match 33.3%; Score 13; DB 2; Length 6;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 HR 4
||
Db 5 HR 6

RESULT 13

PT0520
T-cell receptor beta chain V-D-J region (100-4F) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PT0520
R;Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A;Reference number: PT0509; MUID:91277601; PMID:1711558
A;Accession: PT0520
A;Status: translation not shown
A;Molecule type: mRNA
A;Residues: 1-7 <FEE>
A;Experimental source: adult thymus, strain BALB/c
C;Keywords: T-cell receptor

Query Match 33.3%; Score 13; DB 2; Length 7;
Best Local Similarity 66.7%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KXH 3
|
Db 5 KAH 7

RESULT 14

S65381
cytochrome-c oxidase (EC 1.9.3.1) chain VIIb, hepatic - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 28-Oct-1996 #sequence_revision 13-Mar-1997 #text_change 09-Jul-2004
C;Accession: S65381
R;Schaegger, H.; Noack, H.; Halangk, W.; Brandt, U.; von Jagow, G.
Eur. J. Biochem. 230, 235-241, 1995

A;Title: Cytochrome-c oxidase in developing rat heart. Enzymic properties and amino-term
A;Reference number: S65372; MUID:95324529; PMID:7601105
A;Accession: S65381
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-8 <SCH>
A;Cross-references: UNIPROT:P80430
C;Keywords: oxidoreductase

Query Match 33.3%; Score 13; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 HR 4
||
Db 7 HR 8

RESULT 15
S69165
ferredoxin a2 - Japanese radish (fragment)
C;Species: Kaiware daikon (Japanese radish)
C;Date: 10-Mar-1998 #sequence_revision 10-Mar-1998 #text_change 09-Jul-2004
C;Accession: S69165
R;Obata, S.; Nishimura, M.; Nagai, K.; Sakihama, N.; Shin, M.
Arch. Biochem. Biophys. 316, 797-802, 1995
A;Title: Four ferredoxins from Japanese radish leaves.
A;Reference number: S69164; MUID:95168867; PMID:7864635
A;Accession: S69165
A;Molecule type: protein
A;Residues: 1-8 <OBA>
A;Cross-references: UNIPROT:Q7M1F1
C;Keywords: 2Fe-2S; electron transfer; iron-sulfur protein

Query Match 33.3%; Score 13; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 HR 4
||
Db 2 HR 3

Search completed: October 21, 2004, 07:27:57
Job time : 17.75 secs

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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:15:25 ; Search time 61.75 Seconds
(without alignments)
47.187 Million cell updates/sec

Title: US-09-720-469A-37
Perfect score: 39
Sequence: 1 KXHRVIKDX 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1364641 seqs, 323758627 residues 193469
Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA.*

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- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
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- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	36	92.3	9	15	US-10-447-161-84
2	36	92.3	9	16	US-10-788-016-1
3	28	71.8	9	9	US-09-984-056-61
4	28	71.8	9	9	US-09-984-056-62
5	28	71.8	9	9	US-09-984-057-61
6	28	71.8	9	9	US-09-984-057-62
7	28	71.8	9	14	US-10-105-232-61
8	28	71.8	9	14	US-10-105-232-62
9	28	71.8	9	14	US-10-189-437-61
10	28	71.8	9	14	US-10-189-437-62
11	24	61.5	9	14	US-10-211-207-23
12	24	61.5	9	14	US-10-211-207-24
13	24	61.5	9	14	US-10-077-106-23
14	24	61.5	9	14	US-10-077-106-24

15	23	59.0	10	9	US-09-851-138-204	Sequence 204, Appl
16	23	59.0	11	9	US-09-984-056-72	Sequence 72, Appl
17	23	59.0	11	9	US-09-984-057-72	Sequence 72, Appl
18	23	59.0	11	14	US-10-105-232-72	Sequence 72, Appl
19	23	59.0	11	14	US-10-189-437-72	Sequence 72, Appl
20	22	56.4	10	10	US-09-876-904A-145	Sequence 145, Appl
21	22	56.4	11	14	US-10-293-822-14	Sequence 14, Appl
22	22	56.4	11	14	US-10-293-822-22	Sequence 22, Appl
23	22	56.4	12	14	US-10-300-575-4	Sequence 4, Appl
24	22	56.4	12	15	US-10-601-953-76	Sequence 76, Appl
25	21	53.8	9	14	US-10-119-536A-14	Sequence 14, Appl
26	21	53.8	10	10	US-09-876-904A-500	Sequence 500, Appl
27	21	53.8	10	10	US-09-833-039-114	Sequence 114, Appl
28	21	53.8	10	14	US-10-124-903-12	Sequence 12, Appl
29	21	53.8	10	14	US-10-177-277-114	Sequence 114, Appl
30	21	53.8	12	10	US-09-876-904A-173	Sequence 173, Appl
31	20.5	52.6	11	10	US-09-876-904A-578	Sequence 578, Appl
32	20	51.3	7	14	US-10-369-226-26	Sequence 26, Appl
33	20	51.3	7	17	US-10-459-030B-65	Sequence 65, Appl
34	20	51.3	8	9	US-09-984-056-54	Sequence 54, Appl
35	20	51.3	8	9	US-09-234-395-314	Sequence 314, Appl
36	20	51.3	8	9	US-09-305-928-314	Sequence 314, Appl
37	20	51.3	8	9	US-09-984-057-54	Sequence 54, Appl
38	20	51.3	8	9	US-09-769-145-48	Sequence 48, Appl
39	20	51.3	8	13	US-10-006-982-46	Sequence 46, Appl
40	20	51.3	8	14	US-10-105-008-48	Sequence 48, Appl
41	20	51.3	8	14	US-10-058-821-30	Sequence 30, Appl
42	20	51.3	8	14	US-10-105-232-54	Sequence 54, Appl
43	20	51.3	8	14	US-10-189-437-54	Sequence 54, Appl
44	20	51.3	8	14	US-10-359-546-60	Sequence 60, Appl
45	20	51.3	8	15	US-10-425-557-48	Sequence 48, Appl

ALIGNMENTS

RESULT 1
US-10-447-161-84
; Sequence 84, Application US/10447161
; Publication No. US20040023314A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Rong-fu
; TITLE OF INVENTION: Mutant Fibronectin and Tumor Metastasis
; FILE REFERENCE: HO-P02484US1
; CURRENT APPLICATION NUMBER: US/10/447,161
; CURRENT FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: 60/383,530
; PRIOR FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 84
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-447-161-84

Query Match 92.3%; Score 36; DB 15; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.2e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KXHRVIKD 8
| | | | |
Db 1 KXHRVIKD 8

RESULT 2
US-10-788-016-1
; Sequence 1, Application US/10788016
; Publication No. US20040141992A1
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo

; TITLE OF INVENTION: Desensitizers
; FILE REFERENCE: 3190-049
; CURRENT APPLICATION NUMBER: US/10/788,016
; CURRENT FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/JP02/08641
; PRIOR FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: JP P2001-260046
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Peptide consisting of 9 amino acid residues from the 84th residue
; OTHER INFORMATION: to the 92nd residue of cyclophillin B
US-10-788-016-1

Query Match 92.3%; Score 36; DB 16; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.2e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KXHRVIKD 8
| | | | |
Db 1 KHRVVIKD 8

RESULT 3
US-09-984-056-61
; Sequence 61, Application US/09984056
; Patent No. US20020120106A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: ANTHRAX AND SMALL POX REPLIKINS AND METHODS OF USE
; FILE REFERENCE: 09425-46903
; CURRENT APPLICATION NUMBER: US/09/984,056
; CURRENT FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 103
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 61
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-09-984-056-61

Query Match 71.8%; Score 28; DB 9; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KXHRVIKD 8
| | | | |
Db 1 KHRVVIKD 8

RESULT 4
US-09-984-056-62
; Sequence 62, Application US/09984056
; Patent No. US20020120106A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.

; TITLE OF INVENTION: ANTHRAX AND SMALL POX REPLIKINS AND METHODS OF USE
; FILE REFERENCE: 09425-46903
; CURRENT APPLICATION NUMBER: US/09/984,056
; CURRENT FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 103
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 62
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-09-984-056-62

Query Match 71.8%; Score 28; DB 9; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KXHRVIKD 8
| | | | |
Db 1 KHRVVIKD 8

RESULT 5
US-09-984-057-61
; Sequence 61, Application US/09984057
; Patent No. US20020151677A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKINS AND METHODS OF IDENTIFYING
; TITLE OF INVENTION: REPLIKIN-CONTAINING SEQUENCES
; FILE REFERENCE: 09425-46902
; CURRENT APPLICATION NUMBER: US/09/984,057
; CURRENT FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 90
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 61
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-09-984-057-61

Query Match 71.8%; Score 28; DB 9; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KXHRVIKD 8
| | | | |
Db 1 KHRVVIKD 8

RESULT 6
US-09-984-057-62
; Sequence 62, Application US/09984057

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; Patent No. US20020151677A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKINS AND METHODS OF IDENTIFYING
; TITLE OF INVENTION: REPLIKIN-CONTAINING SEQUENCES
; FILE REFERENCE: 09425-46902
; CURRENT APPLICATION NUMBER: US/09/984,057
; CURRENT FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 90
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 62
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-09-984-057-62
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Query Match 71.8%; Score 28; DB 9; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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Qy 1 KXHRVIKD 8
Db 1 KQHRELKD 8
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```
RESULT 7
US-10-105-232-61
; Sequence 61, Application US/10105232
; Publication No. US20030180328A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKIN PEPTIDES IN RAPID REPLICATION OF GLIOMA CELLS
; TITLE OF INVENTION: AND IN INFLUENZA EPIDEMICS
; FILE REFERENCE: 09425-46904
; CURRENT APPLICATION NUMBER: US/10/105,232
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 535
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 61
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-10-105-232-61
```

```
Query Match 71.8%; Score 28; DB 14; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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```
Qy 1 KXHRVIKD 8
Db 1 KQHRELKD 8
```

```
RESULT 8
US-10-105-232-62
; Sequence 62, Application US/10105232
; Publication No. US20030180328A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKIN PEPTIDES IN RAPID REPLICATION OF GLIOMA CELLS
; TITLE OF INVENTION: AND IN INFLUENZA EPIDEMICS
; FILE REFERENCE: 09425-46904
; CURRENT APPLICATION NUMBER: US/10/105,232
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 535
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 62
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-10-105-232-62
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```
Query Match 71.8%; Score 28; DB 14; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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```
Qy 1 KXHRVIKD 8
Db 1 KQHRELKD 8
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```
RESULT 9
US-10-189-437-61
; Sequence 61, Application US/10189437
; Publication No. US20030194414A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKIN PEPTIDES AND ANTIBODIES THEREFORE
; FILE REFERENCE: 09425/46905
; CURRENT APPLICATION NUMBER: US/10/189,437
; CURRENT FILING DATE: 2002-07-08
; PRIOR APPLICATION NUMBER: 10/105,232
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 09/984,057
; PRIOR FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 729
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 61
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-10-189-437-61
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Query Match 71.8%; Score 28; DB 14; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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```
Qy 1 KXHRVIKD 8
```

```
Db      1 KQHRELKD 8

RESULT 10
US-10-189-437-62
; Sequence 62, Application US/10189437
; Publication No. US20030194414A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKIN PEPTIDES AND ANTIBODIES THEREFORE
; FILE REFERENCE: 09425/46905
; CURRENT APPLICATION NUMBER: US/10/189,437
; CURRENT FILING DATE: 2002-07-08
; PRIOR APPLICATION NUMBER: 10/105,232
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 09/984,057
; PRIOR FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 729
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 62
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-10-189-437-62

Query Match      71.8%; Score 28; DB 14; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 KXHRVIKD 8
      |||:|
Db      1 KQHRELKD 8

RESULT 11
US-10-211-207-23
; Sequence 23, Application US/10211207
; Publication No. US20030004113A1
; GENERAL INFORMATION:
; APPLICANT: Collins, Mary
; APPLICANT: Madrenas, Joaquin
; APPLICANT: Carreno, Beatriz
; APPLICANT: Kuchroo, Vijay
; TITLE OF INVENTION: METHODS FOR MODULATING AN IMMUNE
; TITLE OF INVENTION: RESPONSE BY MODULATING THE INTERACTION BETWEEN CTLA4 AND
; TITLE OF INVENTION: PP2A
; FILE REFERENCE: GNN-027
; CURRENT APPLICATION NUMBER: US/10/211,207
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: US/10/077,106
; PRIOR FILING DATE: 2002-02-15
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyomavirus small
US-10-211-207-23

Query Match      61.5%; Score 24; DB 14; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      3 HRVIKD 8
      |||:|
Db      1 HRELKD 6

RESULT 12
US-10-211-207-24
; Sequence 24, Application US/10211207
; Publication No. US20030004113A1
; GENERAL INFORMATION:
; APPLICANT: Collins, Mary
; APPLICANT: Madrenas, Joaquin
; APPLICANT: Carreno, Beatriz
; APPLICANT: Kuchroo, Vijay
; TITLE OF INVENTION: METHODS FOR MODULATING AN IMMUNE
; TITLE OF INVENTION: RESPONSE BY MODULATING THE INTERACTION BETWEEN CTLA4 AND
; TITLE OF INVENTION: PP2A
; FILE REFERENCE: GNN-027
; CURRENT APPLICATION NUMBER: US/10/211,207
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: US/10/077,106
; PRIOR FILING DATE: 2002-02-15
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyomavirus medium
US-10-211-207-24

Query Match      61.5%; Score 24; DB 14; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      3 HRVIKD 8
      |||:|
Db      1 HRELKD 6

RESULT 13
US-10-077-106-23
; Sequence 23, Application US/10077106
; Publication No. US20030166531A1
; GENERAL INFORMATION:
; APPLICANT: Collins, Mary
; APPLICANT: Madrenas, Joaquin
; APPLICANT: Carreno, Beatriz
; APPLICANT: Kuchroo, Vijay
; TITLE OF INVENTION: METHODS FOR MODULATING AN IMMUNE
; TITLE OF INVENTION: RESPONSE BY MODULATING THE INTERACTION BETWEEN CTLA4 AND
; TITLE OF INVENTION: PP2A
; FILE REFERENCE: GNN-027
; CURRENT APPLICATION NUMBER: US/10/077,106
; CURRENT FILING DATE: 2002-02-15
; PRIOR APPLICATION NUMBER: 60/269,757
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyomavirus small
US-10-077-106-23

Query Match      61.5%; Score 24; DB 14; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      3 HRVIKD 8
      |||:|
Db      1 HRELKD 6

RESULT 14
US-10-077-106-24
; Sequence 24, Application US/10077106
; Publication No. US20030166531A1
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; GENERAL INFORMATION:
; APPLICANT: Collins, Mary
; APPLICANT: Madrenas, Joaquin
; APPLICANT: Carreno, Beatriz
; APPLICANT: Kuchroo, Vijay
; TITLE OF INVENTION: METHODS FOR MODULATING AN IMMUNE
; TITLE OF INVENTION: RESPONSE BY MODULATING THE INTERACTION BETWEEN CTLA4 AND
; TITLE OF INVENTION: PP2A
; FILE REFERENCE: GNM-027
; CURRENT APPLICATION NUMBER: US/10/077,106
; CURRENT FILING DATE: 2002-02-15
; PRIOR APPLICATION NUMBER: 60/269,757
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyomavirus medium
US-10-077-106-24

Query Match      61.5%; Score 24; DB 14; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      3 HRVIKD 8
Db      1 HRELKD 6

RESULT 15
US-09-851-138-204
; Sequence 204, Application US/098511138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
;          STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
;          AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
;          AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 204:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
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; SEQUENCE DESCRIPTION: SEQ ID NO: 204:
US-09-851-138-204

Query Match      59.0%; Score 23; DB 9; Length 10;
Best Local Similarity 50.0%; Pred. No. 2.5e+02;
Matches 4; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 KXHRVIKD 8
Db      3 KYHQVTQD 10

Search completed: October 21, 2004, 07:33:41
Job time : 62.75 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:05:04 ; Search time 86 Seconds
(without alignments)
60.214 Million cell updates/sec

Title: US-09-720-469A-37
Perfect score: 39
Sequence: 1 KXHRVIKDX 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1825181 segs, 575374646 residues

Total number of hits satisfying chosen parameters: 4909

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt_02:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	21	53.8	8	2	Q8AWV7	Q8awv7 anas platyr
2	21	53.8	8	2	Q8AWV8	Q8awv8 cygnus colu
3	21	53.8	8	2	Q8AWV9	Q8awv9 anser caeru
4	21	53.8	8	2	Q8AWW0	Q8aww0 coscoroba c
5	20	51.3	8	2	Q05403	Q05403 saccharomyc
6	19	48.7	9	2	Q7SCD2	Q7scd2 neurospora
7	19	48.7	10	2	Q8N6B1	Q8n6b1 homo sapien
8	19	48.7	10	2	Q8RJF1	Q8rjf1 pseudomonas
9	19	48.7	11	2	Q9XSP2	Q9xsp2 hylobates s
10	19	48.7	11	2	Q9XSP5	Q9xsp5 pan troglod
11	19	48.7	11	2	Q9XSP6	Q9xsp6 pongo pygma
12	19	48.7	11	2	Q9XSP7	Q9xsp7 pygathrix n
13	19	48.7	11	2	Q9XSP8	Q9xsp8 presbytis j
14	19	48.7	11	2	Q9XSQ4	Q9xsq4 gorilla gor
15	18	46.2	12	2	Q7RGL4	Q7rgl4 plasmodium
16	17	43.6	9	2	Q9TWX7	Q9twx7 manduca sex
17	17	43.6	10	2	Q9TQV4	Q9tgq4 e equus cab
18	17	43.6	11	2	Q8MEL7	Q8mel7 sida hooker
19	17	43.6	11	2	Q8MEL9	Q8mel9 pavonia has
20	17	43.6	11	2	Q8MEM2	Q8mem2 lagunaria p
21	17	43.6	11	2	Q8MEP0	Q8mep0 hibiscus pe
22	17	43.6	11	2	Q8MEP3	Q8mep3 hibiscus no
23	17	43.6	11	2	Q8MEP5	Q8mep5 hibiscus mi
24	17	43.6	11	2	Q8MEQ7	Q8meq7 hibiscus dr
25	17	43.6	11	2	Q8MER0	Q8mer0 hibiscus co
26	17	43.6	11	2	Q8MER1	Q8mer1 hibiscus ca
27	17	43.6	11	2	Q8MER7	Q8mer7 fioria viti
28	17	43.6	11	2	Q8MER8	Q8mer8 dombeya til
29	17	43.6	11	2	Q8MES1	Q8mes1 alyogyne pi
30	17	43.6	11	2	Q8MES3	Q8mes3 alyogyne cr
31	17	43.6	11	2	Q8MES5	Q8mes5 abelmoschus

32	17	43.6	12	2	Q8HU93	Q8hu93 bryum donia
33	17	43.6	12	2	Q8LU67	Q8lu67 macrostelia
34	17	43.6	12	2	Q8MEL6	Q8mel6 thespesia t
35	17	43.6	12	2	Q8MEL8	Q8mel8 radyera far
36	17	43.6	12	2	Q8MEM0	Q8mem0 malvaviscus
37	17	43.6	12	2	Q8MEM1	Q8mem1 malva negle
38	17	43.6	12	2	Q8MEM4	Q8mem4 hibiscus zo
39	17	43.6	12	2	Q8MEM5	Q8mem5 hibiscus wa
40	17	43.6	12	2	Q8MEM6	Q8mem6 hibiscus tr
41	17	43.6	12	2	Q8MEM7	Q8mem7 hibiscus ti
42	17	43.6	12	2	Q8MEM8	Q8mem8 hibiscus sy
43	17	43.6	12	2	Q8MEM9	Q8mem9 hibiscus su
44	17	43.6	12	2	Q8MEN0	Q8men0 hibiscus st
45	17	43.6	12	2	Q8MEN1	Q8men1 hibiscus st

ALIGNMENTS

RESULT 1

Q8AWV7 PRELIMINARY; PRT; 8 AA.
AC Q8AWV7;
DT 01-MAR-2003 (Tremblrel. 23, Created)
DT 01-MAR-2003 (Tremblrel. 23, Last sequence update)
DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)
DE LDH-B (Fragment).
GN Name=LDH-B;
OS Anas platyrhynchos (Domestic duck).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Anseriformes; Anatidae; Anas.
OX NCBI_TaxID=8839;
RN [1]
RP SEQUENCE FROM N.A.
RA Cotter J.-P., StJohn J., Quinn T.W.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY123327; AAM96901.1; -.
FT NON_TER 1 1
FT NON_TER 8 8
SQ SEQUENCE 8 AA; 911 MW; D73AADC2C05331F1 CRC64;

Query Match 53.8%; Score 21; DB 2; Length 8;
Best Local Similarity 33.3%; Pred. No. 1.8e+06;
Matches 2; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIKD 8
|::|
Db 2 HKIVAD 7

RESULT 2

Q8AWV8 PRELIMINARY; PRT; 8 AA.
AC Q8AWV8;
DT 01-MAR-2003 (Tremblrel. 23, Created)
DT 01-MAR-2003 (Tremblrel. 23, Last sequence update)
DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)
DE LDH-B (Fragment).
GN Name=LDH-B;
OS Cygnus columbianus (tundra swan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Anseriformes; Anatidae; Cygnus.
OX NCBI_TaxID=110926;
RN [1]
RP SEQUENCE FROM N.A.
RA Cotter J.-P., StJohn J., Quinn T.W.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY123326; AAM96900.1; -.
FT NON_TER 1 1
FT NON_TER 8 8
SQ SEQUENCE 8 AA; 911 MW; D73AADC2C05331F1 CRC64;

Query Match 53.8%; Score 21; DB 2; Length 8;

Best Local Similarity 33.3%; Pred. No. 1.8e+06;
Matches 2; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIKD 8
|:::|
Db 2 HKIVAD 7

RESULT 3
Q8AWV9 PRELIMINARY; PRT; 8 AA.

AC Q8AWV9;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE LDH-B (Fragment).
GN Name=LDH-B;
OS Anser caerulescens caerulescens (snow goose).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Anseriformes; Anatidae; Anser.
OX NCBI_TaxID=70340;
RN [1]
RP SEQUENCE FROM N.A.
RA Cotter J.-P., StJohn J., Quinn T.W.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY123325; AAM96899.1; -.
FT NON_TER 1 1
FT NON_TER 8 8
SQ SEQUENCE 8 AA; 911 MW; D73AADC2C05331F1 CRC64;

Query Match 53.8%; Score 21; DB 2; Length 8;
Best Local Similarity 33.3%; Pred. No. 1.8e+06;
Matches 2; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIKD 8
|:::|
Db 2 HKIVAD 7

RESULT 4
Q8AWW0 PRELIMINARY; PRT; 8 AA.

AC Q8AWW0;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE LDH-B (Fragment).
GN Name=LDH-B;
OS Coscoroba coscoroba (Coscoroba swan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Anseriformes; Anatidae; Coscoroba.
OX NCBI_TaxID=8863;
RN [1]
RP SEQUENCE FROM N.A.
RA Cotter J.-P., StJohn J., Quinn T.W.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY123324; AAM96898.1; -.
FT NON_TER 1 1
FT NON_TER 8 8
SQ SEQUENCE 8 AA; 911 MW; D73AADC2C05331F1 CRC64;

Query Match 53.8%; Score 21; DB 2; Length 8;
Best Local Similarity 33.3%; Pred. No. 1.8e+06;
Matches 2; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIKD 8
|:::|
Db 2 HKIVAD 7

RESULT 5
Q05403 PRELIMINARY; PRT; 8 AA.

ID Q05403

Q05403;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Orf 00915 protein (Fragment).
GN Name=orf 00915;
OS Saccharomyces cerevisiae (Baker's yeast).
OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
OC Saccharomycetales; Saccharomycetaceae; Saccharomycetes.
OX NCBI_TaxID=4932;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=FY1679;
RX MEDLINE=96021609; PubMed=8533473;
RA Zumstein E., Pearson B.M., Kalogeropoulos A., Schweizer M.;
RT "A 29.425 kb segment on the left arm of yeast chromosome XV contains
RT more than twice as many unknown open reading frames.";
RL Yeast 11:975-986(1995).
DR EMBL; X83121; CAA58183.1; -.
FT NON_TER 8 8
SQ SEQUENCE 8 AA; 879 MW; 7B5322D2C441E058 CRC64;

Query Match 51.3%; Score 20; DB 2; Length 8;
Best Local Similarity 60.0%; Pred. No. 1.8e+06;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIK 7
|:::|
Db 3 HNVVK 7

RESULT 6
Q7SCD2 PRELIMINARY; PRT; 9 AA.

ID Q7SCD2
AC Q7SCD2;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Predicted protein.
GN Name=NCU05334.1;
OS Neurospora crassa.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
OC Sordariomycetidae; Sordariales; Sordariaceae; Neurospora.
OX NCBI_TaxID=5141;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=OR74A;
RA Galagan J.E., Calvo S.E., Borkovich K.A., Selker E.U., Read N.D.,
RA Jaffe D., FitzHugh W., Ma L.-J., Smirnov S., Purcell S., Rehman B.,
RA Elkins T., Engels R., Wang S., Nielsen C.B., Butler J., Endrizzi M.,
RA Qui D., Iankiev P., Pedersen D., Nelson M., Washburne M.,
RA Selitrennikoff C.P., Kinsey J.A., Braun E.L., Zelter A., Schulte U.,
RA Kothe G.O., Jedd G., Mewes W., Staben C., Marcotte E., Greenberg D.,
RA Roy A., Foley K., Naylor J., Thomann N., Barrett R., Gnerre S.,
RA Kamal M., Kamysseelis M., Mauceli E., Bielke C., Rudd S., Frishman D.,
RA Krystofova S., Rasmussen C., Metzberg R.L., Perkins D.D., Kroken S.,
RA Cogoni C., Macino G., Catcheside D., Li W., Pratt R.J., Osmani S.A.,
RA DeSouza C.C., Glass L., Orbach M.J., Berglund J., Voelker R.,
RA Yarden O., Plamann M., Seiler S., Dunlap J., Radford A., Aramayo R.,
RA Natvig D.O., Alex L.A., Mannhaupt G., Ebbole D.J., Freitag M.,
RA Paulsen I., Sachs M.S., Lander E.S., Nusbaum C., Birren B.;
RT "The Genome Sequence of the Filamentous Fungus Neurospora crassa.";
RL Nature 0:0-0(2003).
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AABX01000130; EAA34319.1; -.
SQ SEQUENCE 9 AA; 1173 MW; C483A32B50440449 CRC64;

Query Match 48.7%; Score 19; DB 2; Length 9;
Best Local Similarity 50.0%; Pred. No. 1.8e+06;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIKD 8
: : :
Db 3 NRIYKD 8

RESULT 7
Q8N6B1 PRELIMINARY; PRT; 10 AA.
AC Q8N6B1;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Capacitative calcium channel protein Trp1 (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=late pregnancy myometrium;
RX MEDLINE=22181008; PubMed=12193412;
RA Yang M., Gupta A., Shlykov S.G., Corrigan B., Tsujimoto S.,
RA Sanborn B.M.;
RT "Multiple Trp isoforms implicated in capacitative calcium entry are
RT expressed in human pregnant myometrium and myometrial cells.";
RL Biol. Reprod. 67:988-994(2002).
DR EMBL; AF483646; AAM97861.1; -.
FT NON_TER 1
SQ SEQUENCE 10 AA; 1336 MW; 0DD0C0B401F40724 CRC64;

Query Match 48.7%; Score 19; DB 2; Length 10;
Best Local Similarity 80.0%; Pred. No. 2.9e+03;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIK 7
: : :
Db 6 HRDIK 10

RESULT 8
Q8RJF1 PRELIMINARY; PRT; 10 AA.
AC Q8RJF1;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Porin-like protein (Fragment).
OS Pseudomonas fluorescens.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
OC Pseudomonadaceae; Pseudomonas.
OX NCBI_TaxID=294;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=NC16-2, TC29-5, and TC97;
RX MEDLINE=22315381; PubMed=12427948;
RA Kholodii G., Gorlenko Z., Mindlin S., Hobman J., Nikiforov V.;
RT "Tn5041-like transposons: molecular diversity, evolutionary
RT relationships and distribution of distinct variants in environmental
RT bacteria.";
RL Microbiology 148:3569-3582(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=NC16-2, TC29-5, and TC97;
RX MEDLINE=22315381; PubMed=12427948;
RA Kholodii G.Y.;
RT "Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
RL EMBL; AJ422128; CAD19527.1; -.
DR EMBL; AJ422129; CAD19528.1; -.
DR EMBL; AJ422130; CAD19529.1; -.
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:0005741; C:mitochondrial outer membrane; IEA.
DR GO; GO:0015288; F:porin activity; IEA.
KW Porin.
FT NON_TER 10 10

SQ SEQUENCE 10 AA; 1206 MW; 23C47E7401F5A417 CRC64;
Query Match 48.7%; Score 19; DB 2; Length 10;
Best Local Similarity 42.9%; Pred. No. 2.9e+03;
Matches 3; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 KXHRVIK 7
: : :
Db 4 RSHRPIR 10

RESULT 9
Q9XSP2 PRELIMINARY; PRT; 11 AA.
ID Q9XSP2;
AC Q9XSP2;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
GN Name=PDGFA;
OS Hylobates syndactylus (Siamang) (Symphalangus syndactylus).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hylobatidae; Hylobates.
OX NCBI_TaxID=9590;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus.";
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243280; CAB45927.1; -.
FT NON_TER 1
FT NON_TER 11
SQ SEQUENCE 11 AA; 1345 MW; 7FB881F101E1E044 CRC64;

Query Match 48.7%; Score 19; DB 2; Length 11;
Best Local Similarity 60.0%; Pred. No. 3.2e+03;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIK 7
: : :
Db 7 HRSVK 11

RESULT 10
Q9XSP5 PRELIMINARY; PRT; 11 AA.
ID Q9XSP5;
AC Q9XSP5;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
GN Name=PDGFA;
OS Pan troglodytes (Chimpanzee).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
OX NCBI_TaxID=9598;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus.";
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243277; CAB45926.1; -.
FT NON_TER 1
FT NON_TER 11
SQ SEQUENCE 11 AA; 1331 MW; 7FB881F101E1F2D4 CRC64;

Query Match 48.7%; Score 19; DB 2; Length 11;
Best Local Similarity 60.0%; Pred. No. 3.2e+03;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIK 7
: : :
Db 7 HRSVK 11

```
Db          || :|
            7 HRSVK 11

RESULT 11
Q9XSP6
ID Q9XSP6      PRELIMINARY;      PRT;      11 AA.
AC Q9XSP6;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
GN Name=PDGFA;
OS Pongo pygmaeus (Orangutan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pongo.
OX NCBI_TaxID=9600;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus.";
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243279; CAB45925.1; -.
FT NON_TER 1 1
FT NON_TER 11 11
SQ SEQUENCE 11 AA; 1345 MW; 7FB881F101E1E044 CRC64;

Query Match 48.7%; Score 19; DB 2; Length 11;
Best Local Similarity 60.0%; Pred. No. 3.2e+03;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy          3 HRVik 7
|| :|
Db          7 HRSVK 11

RESULT 12
Q9XSP7
ID Q9XSP7      PRELIMINARY;      PRT;      11 AA.
AC Q9XSP7;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
GN Name=PDGFA;
OS Pygathrix nemaeus (Dove langur).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae; Colobinae;
OC Pygathrix.
OX NCBI_TaxID=54133;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus.";
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243282; CAB45924.1; -.
FT NON_TER 1 1
FT NON_TER 11 11
SQ SEQUENCE 11 AA; 1345 MW; 7FB881F101E1E044 CRC64;

Query Match 48.7%; Score 19; DB 2; Length 11;
Best Local Similarity 60.0%; Pred. No. 3.2e+03;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy          3 HRVik 7
|| :|
Db          7 HRSVK 11

RESULT 13
Q9XSP8
ID Q9XSP8      PRELIMINARY;      PRT;      11 AA.
AC Q9XSP8;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
GN Name=PDGFA;
OS Presbytis johni.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae; Colobinae;
OC Presbytis.
OX NCBI_TaxID=98375;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus.";
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243281; CAB46013.1; -.
FT NON_TER 1 1
FT NON_TER 11 11
SQ SEQUENCE 11 AA; 1345 MW; 7FB881F101E1E044 CRC64;

Query Match 48.7%; Score 19; DB 2; Length 11;
Best Local Similarity 60.0%; Pred. No. 3.2e+03;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy          3 HRVik 7
|| :|
Db          7 HRSVK 11

RESULT 14
Q9XSQ4
ID Q9XSQ4      PRELIMINARY;      PRT;      11 AA.
AC Q9XSQ4;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
GN Name=PDGFA;
OS Gorilla gorilla (gorilla).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Gorilla.
OX NCBI_TaxID=9593;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus.";
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243278; CAB45916.1; -.
FT NON_TER 1 1
FT NON_TER 11 11
SQ SEQUENCE 11 AA; 1331 MW; 7FB881F101E1F2D4 CRC64;

Query Match 48.7%; Score 19; DB 2; Length 11;
Best Local Similarity 60.0%; Pred. No. 3.2e+03;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy          3 HRVik 7
|| :|
Db          7 HRSVK 11

RESULT 15
Q7RGL4
ID Q7RGL4      PRELIMINARY;      PRT;      12 AA.
AC Q7RGL4;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein (Fragment).
```

GN Name=PY04332;
OS Plasmodium yoelii yoelii.
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX NCBI_TaxID=73239;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=17XNL;
RX PubMed=12368865;
RA Carlton J.M., Angiuoli S.V., Suh B.B., Kooij T.W., Perteu M.,
RA Silva J.C., Ermolaeva M.D., Allen J.E., Selengut J.D., Koo H.L.,
RA Peterson J.D., Pop M., Kosack D.S., Shumway M.F., Bidwell S.L.,
RA Shallom S.J., van Aken S.E., Riedmuller S.B., Feldblyum T.V.,
RA Cho J.K., Quackenbush J., Sedegah M., Shoaibi A., Cummings L.M.,
RA Florens L., Yates F.R. III, Raine J.D., Sinden R.E., Harris M.A.,
RA Cunningham D.A., Preiser P.R., Bergman L.W., Vaidya A.B.,
RA van Lin L.H., Janse C.J., Waters A.P., Smith H.O., White O.R.,
RA Salzberg S.L., Venter J.C., Fraser C.M., Hoffman S.L., Gardner M.J.,
RA Carucci D.J.;
RT "Genome sequence and comparative analysis of the model rodent malaria
RT parasite Plasmodium yoelii yoelii.";
RL Nature 419:512-519(2002).
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AABL01001307; EAA16180.1; -.
KW Hypothetical protein.
FT NON_TER 12
SQ SEQUENCE 12 AA; 1485 MW; D2A760BC2E633DC2 CRC64;

Query Match 46.2%; Score 18; DB 2; Length 12;
Best Local Similarity 60.0%; Pred. No. 5.8e+03;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIK 7
Db 3 HKVAK 7

Search completed: October 21, 2004, 07:26:47
Job time : 87 secs

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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:04:19 ; Search time 83 Seconds
(without alignments)
38.898 Million cell updates/sec

Title: US-09-720-469A-38
Perfect score: 40
Sequence: 1 DXMIQGGDX 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2002273 seqs, 358729299 residues

Total number of hits satisfying chosen parameters: 497672

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_23Sep04.*
1: geneseqp1980s.*
2: geneseqp1990s.*
3: geneseqp2000s.*
4: geneseqp2001s.*
5: geneseqp2002s.*
6: geneseqp2003as.*
7: geneseqp2003bs.*
8: geneseqp2004s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	37	92.5	9	3 AAY69963	Aay69963 Human cyc
2	37	92.5	9	3 AAY69958	Aay69958 Human cyc
3	37	92.5	9	3 AAY69961	Aay69961 Human cyc
4	37	92.5	9	3 AAY69922	Aay69922 Human cyc
5	37	92.5	9	4 AAB46947	Aab46947 Human cyc
6	37	92.5	9	4 AAB46931	Aab46931 Human cyc
7	37	92.5	9	4 AAG68089	Aag68089 Antitumou
8	37	92.5	9	5 ABG79076	Abg79076 Human Cyp
9	37	92.5	9	6 ABR84374	AbR84374 Human Cyp
10	37	92.5	9	7 ADC17709	Adc17709 Modified
11	37	92.5	9	7 ADC17702	Adc17702 Cyclophil
12	37	92.5	9	8 ADG89642	Adg89642 Class I H
13	27	67.5	9	3 AAY69957	Aay69957 Human cyc
14	25	62.5	8	3 AAB12089	Aab12089 Ad7 cel p
15	25	62.5	8	7 ADE84662	Ade84662 Adenoviru
16	25	62.5	9	2 AAR20729	Aar20729 Pancreas-
17	25	62.5	9	3 AAY51905	Aay51905 Elastase
18	25	62.5	10	5 AAU78392	Aau78392 Biosurfac
19	24	60.0	9	8 ADK07318	Adk07318 Hepatitis
20	24	60.0	9	8 ADK06815	Adk06815 Hepatitis
21	23	57.5	6	2 AAW83889	Aaw83889 Peptide s
22	23	57.5	11	2 AAW48850	Aaw48850 Human pro
23	22	55.0	9	4 AAB45861	Aab45861 Human tum
24	22	55.0	10	6 ABR83253	AbR83253 H. pylori
25	22	55.0	11	8 ADN17045	Adn17045 Gi-alpha

26	22	55.0	12	6 ABR01459	Abr01459 Human TIM
27	22	55.0	12	7 ABR63060	Abr63060 Pathogen
28	21	52.5	5	6 AAE34120	Aae34120 Gluten sp
29	21	52.5	8	2 AAR93207	Aar93207 New contr
30	21	52.5	9	2 AAR72938	Aar72938 E. coli P
31	21	52.5	9	2 AAR72894	Aar72894 E. coli P
32	21	52.5	9	6 ABR67369	Abr67369 Human hsp
33	21	52.5	9	6 ABR67364	Abr67364 Human hsp
34	21	52.5	9	8 ADK07060	Adk07060 Hepatitis
35	21	52.5	10	2 AAR72949	Aar72949 E. coli P
36	21	52.5	10	2 AAR72905	Aar72905 E. coli P
37	21	52.5	10	2 AAW41471	Aaw41471 Fragment
38	21	52.5	10	3 AAB35991	Aab35991 Sorbitol
39	21	52.5	10	4 AAG87272	Aag87272 Saccharom
40	21	52.5	10	7 ADI15749	Adi15749 HLA-A2 re
41	21	52.5	10	8 ADJ52136	Adj52136 CH1 delet
42	21	52.5	10	8 ADK09152	Adk09152 Human pap
43	21	52.5	10	8 ADK09635	Adk09635 Human pap
44	21	52.5	10	8 ADOL7328	Adol7328 Different
45	21	52.5	11	2 AAR14821	Aar14821 Bay thioe

ALIGNMENTS

RESULT 1
AAY69963
ID AAY69963 standard; peptide; 9 AA.
XX

AC AAY69963;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #43.

Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
HLA antigen; diagnosis; tumour; therapy.

OS Homo sapiens.

XX WO9967288-A1.

XX PD 29-DEC-1999.

PF 24-JUN-1999; 99WO-JP003360.

XX PR 25-JUN-1998; 98JP-00178449.

XX PA (SUMU) SUMITOMO PHARM CO LTD.
(ITOH/) ITOH K.

XX PI Itoh K, Gomi S;

XX DR WPI; 2000-116932/10.

XX PT Tumor antigen peptides derived from cyclophilin B for treatment and
diagnosis of tumors.

XX PS Claim 10; Page 60; 64pp; Japanese.

XX CC This sequence represents a cyclophilin B peptide of the invention. The
peptides are tumour antigen peptides derived from cyclophilin B, that
recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
peptides are used for the treatment and diagnosis of tumours

XX SQ Sequence 9 AA;

Query Match 92.5%; Score 37; DB 3; Length 9;

Best Local Similarity 87.5%; Pred. NO. 1.7e+06;

Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DXMIQGGD 8
| | | | |

Db 1 DYMIQGGD 8

RESULT 2
AAY69958
ID AAY69958 standard; peptide; 9 AA.
XX
AC AAY69958;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #38.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
PN WO9967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP003360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX
PI Itoh K, Gomi S;
XX
XX WPI; 2000-116932/10.
XX
PT Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 4; Page 61; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;
Query Match 92.5%; Score 37; DB 3; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 DXMIQGGD 8
Db 1 DFMIQGGD 8

RESULT 3
AAY69961
ID AAY69961 standard; peptide; 9 AA.
XX
AC AAY69961;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #41.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
XX Key Location/Qualifiers
FT Misc-difference 2 /label= Phe, Tyr, Met, Trp
FT Misc-difference 9

FT /label= Phe, Leu, Ile, Trp, Met
XX
PN WO9967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP003360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX
PI Itoh K, Gomi S;
XX
DR WPI; 2000-116932/10.
XX
XX Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 10; Page 60; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;
Query Match 92.5%; Score 37; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DXMIQGGD 8
Db 1 DXMIQGGD 8

RESULT 4
AAY69922
ID AAY69922 standard; peptide; 9 AA.
XX
AC AAY69922;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #2.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
PN WO9967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP003360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX
PI Itoh K, Gomi S;
XX
DR WPI; 2000-116932/10.
XX
PT Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 4; Page 49; 64pp; Japanese.
XX

CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;
Query Match 92.5%; Score 37; DB 3; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 DXMIQGGD 8
Db 1 DFMIQGGD 8
RESULT 5
AAB46947
ID AAB46947 standard; peptide; 9 AA.
XX
AC AAB46947;
XX
DT 04-MAY-2001 (first entry)
XX
DE Human cyclophilin B derived tumor antigenic peptide SEQ ID 33.
XX
KW Tumor antigenic peptide; interferon; IFN; antigen-specific T cell;
KW virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell;
KW viral infectious disease; cyclophilin B; human.
XX
OS Homo sapiens.
XX
PN EP1074267-A1.
XX
PD 07-FEB-2001.
XX
PF 24-JUL-2000; 2000EP-00306263.
XX
PR 22-JUL-1999; 99JP-00207687.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
XX
PI Takasu H, Gotoh M, Yamaoka T;
XX
DR WPI; 2001-193144/20.
XX
PT Use of antigenic proteins, peptides, interferon or their encoding DNA, in
PT the manufacture of an agent for the induction of antigen-specific T
PT cells.
XX
PS Disclosure; Page 20; 25pp; English.
XX
CC This invention describes the novel use of interferons (IFNs) or DNAs
CC capable of expressing the interferons and/or antigenic proteins (AP),
CC antigenic peptides derived from the proteins or DNAs capable of
CC expressing the antigenic proteins or peptides, in the manufacture of an
CC agent for induction of antigen-specific T cells. The products of the
CC invention have virucide and cytostatic activity and can be used for gene
CC therapy or as inducers of antigen-specific T cells. The action of
CC interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic
CC T cell (CTL) by administering an antigenic peptide in an incomplete
CC Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or
CC DNA encoding IFNs) are useful in the manufacture of a medicament for
CC inducing antigen-specific T cells in an individual who has been
CC administered with AP (or DNA encoding AP) or vice versa. The medicament
CC is useful for the treatment or prophylaxis of a tumor or a viral
CC infectious disease
XX
SQ Sequence 9 AA;
Query Match 92.5%; Score 37; DB 4; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 DXMIQGGD 8
Db 1 DFMIQGGD 8
RESULT 7
AAG68089
ID AAG68089 standard; peptide; 9 AA.
XX

QY 1 DXMIQGGD 8
Db 1 DYMIQGGD 8
RESULT 6
AAB46931
ID AAB46931 standard; peptide; 9 AA.
XX
AC AAB46931;
XX
DT 04-MAY-2001 (first entry)
XX
DE Human cyclophilin B derived tumor antigenic peptide SEQ ID 17.
XX
KW Tumor antigenic peptide; interferon; IFN; antigen-specific T cell;
KW virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell;
KW viral infectious disease; cyclophilin B; human.
XX
OS Homo sapiens.
XX
PN EP1074267-A1.
XX
PD 07-FEB-2001.
XX
PF 24-JUL-2000; 2000EP-00306263.
XX
PR 22-JUL-1999; 99JP-00207687.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
XX
PI Takasu H, Gotoh M, Yamaoka T;
XX
DR WPI; 2001-193144/20.
XX
PT Use of antigenic proteins, peptides, interferon or their encoding DNA, in
PT the manufacture of an agent for the induction of antigen-specific T
PT cells.
XX
PS Disclosure; Page 15; 25pp; English.
XX
CC This invention describes the novel use of interferons (IFNs) or DNAs
CC capable of expressing the interferons and/or antigenic proteins (AP),
CC antigenic peptides derived from the proteins or DNAs capable of
CC expressing the antigenic proteins or peptides, in the manufacture of an
CC agent for induction of antigen-specific T cells. The products of the
CC invention have virucide and cytostatic activity and can be used for gene
CC therapy or as inducers of antigen-specific T cells. The action of
CC interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic
CC T cell (CTL) by administering an antigenic peptide in an incomplete
CC Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or
CC DNA encoding IFNs) are useful in the manufacture of a medicament for
CC inducing antigen-specific T cells in an individual who has been
CC administered with AP (or DNA encoding AP) or vice versa. The medicament
CC is useful for the treatment or prophylaxis of a tumor or a viral
CC infectious disease
XX
SQ Sequence 9 AA;
Query Match 92.5%; Score 37; DB 4; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 DXMIQGGD 8
Db 1 DFMIQGGD 8
RESULT 7
AAG68089
ID AAG68089 standard; peptide; 9 AA.
XX

AC AAG68089;
XX
XX DT 17-DEC-2001 (first entry)
XX PN
DE Antitumour peptide cyclophilin B 91-99.
XX
XX
KW Antitumour; cancer; cancer cell recognition; antigenic; CTL; lck; src;
KW tumour specific cytotoxic T lymphocyte; anticancer; SART-1; SART-3;
KW cyclophilin B gene; HLA-A2402.
XX
XX OS Homo sapiens.
XX PN JP2001245675-A.
XX PD 11-SEP-2001.
XX PF 25-DEC-2000; 2000JP-00393047.
XX PR 28-DEC-1999; 99JP-00374322.
XX PA (ITOY/) ITO Y.
XX DR WPI; 2001-610076/70.
XX
XX PT New peptides for recognizing cancer cells with tumor specific cytotoxic T
XX lymphocytes and for treating cancer.
XX PS Claim 8; Page 2; 14pp; Japanese.
XX
XX The present invention describes peptides recognising cancer cells with
XX tumour specific cytotoxic T lymphocytes (CTL). The peptides recognising
XX cancer cells with tumour specific CTLs are selected from: (1) peptides of
XX sequences (AAG68066 to AAG68069); (2) peptides containing the above
XX mentioned sequences; (3) peptides having 70 & or more of homogeneity with
XX the above mentioned sequences; and (4) peptides with one or more deleted,
XX substituted, added or inserted amino acid(s) of the above mentioned
XX sequences, particularly those having recognising property due to HLA-
XX A2402 binding CTL, especially having at least 5 amino acids, used for
XX medicine, particularly anticancer agents, derived from antitumour
XX antigenic peptides of lck, src family, SART-1, SART-3 or cyclophilin B
XX genes. The antitumour peptides have cytostatic activities. The peptides
XX are used for the treatment of cancer. The peptides cause activation of
XX CTL in cancer patients. The present sequence represents a peptide from
XX the present invention
SQ Sequence 9 AA;

Query Match 92.5%; Score 37; DB 4; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DXMIQGGD 8
| |||||
Db 1 DFMIQGGD 8

RESULT 8
ABG79076
ID ABG79076 standard; peptide; 9 AA.
XX
AC ABG79076;
XX
XX DT 15-NOV-2002 (first entry)
XX
XX DE Human Cyp-B class I HLA widely expressed antigen peptide #2.
XX
KW Cell penetrating peptide; cancer; tumour; melanoma; thymoma; antigen;
KW lymphoma; sarcoma; lung cancer; non-Hodgkin's lymphoma; leukaemia;
KW Hodgkin's lymphoma; uterine cancer; cervical cancer; bladder cancer;
KW kidney cancer; adenocarcinoma; breast cancer; prostate cancer;
KW ovarian cancer; pancreatic cancer; epitope; vaccine; dendritic cell;
KW tumour infiltrating lymphocyte; TIL; human leukocyte antigen; HLA;
KW cytostatic; human.

XX OS Homo sapiens.
XX PN WO200264057-A2.
XX PD 22-AUG-2002.
XX PF 15-FEB-2002; 2002WO-US005212.
XX PR 15-FEB-2001; 2001US-0268687P.
XX PA (BAYU) BAYLOR COLLEGE MEDICINE.
XX PI Wang R;
XX DR WPI; 2002-627577/67.
XX
XX PT Novel composition for treating a disease in an animal, comprises an
XX immune effector cell and cell penetrating peptide associated with an
XX antigen or antibody.
XX PS Disclosure; Page 17; 61pp; English.
XX
XX The invention relates to a composition (I) comprising an immune effector
XX cell and a cell penetrating peptide (CPP) associated with an antigen or
XX antibody. Also included are (1) a vaccine comprising (I), CPP associated
XX with an antigen, and a pharmaceutically acceptable carrier and (2)
XX preparing a composition for a disease, by providing (I) and CPP
XX associated with an antigen for disease, and introducing the antigen-
XX associated CPP to (I), where antigen enters into the cell. The antigens
XX are, for example, tumour antigen derived epitopes recognised by tumour
XX infiltrating lymphocytes (TIL) of HLA (human leukocyte antigen) class I
XX or II. The composition is useful for enhancing immunity in an animal to a
XX disease, by administering a mature dendritic cell comprising CPP
XX associated with an antigen to disease, to the animal, such that following
XX the administration, animal is protected from disease, where the animal
XX comprises both CD4+ and CD8+ T cells. It is also useful for treating a
XX disease (e.g. cancer, tumour, melanoma, thymoma, lymphoma, sarcoma, lung
XX cancer, non-Hodgkin's lymphoma, leukaemia, kidney cancer, adenocarcinoma,
XX cancer, cervical cancer, bladder cancer, kidney cancer, ovarian cancer,
XX breast cancer, prostate cancer, ovarian cancer and pancreatic cancer).
XX The animal is further subjected to a cancer treatment including surgery,
XX radiation, chemotherapy or gene therapy. The administration of (I),
XX preferably dendritic cell is prior to, subsequent to or concurrent with,
XX the cancer treatment. The present sequence is a tumour antigen derived
XX epitope for inclusion in the composition of the invention
SQ Sequence 9 AA;

Query Match 92.5%; Score 37; DB 5; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DXMIQGGD 8
| |||||
Db 1 DFMIQGGD 8

RESULT 9
ABR84374
ID ABR84374 standard; peptide; 9 AA.
XX
AC ABR84374;
XX
XX DT 06-NOV-2003 (first entry)
XX
XX DE Human CypB HLA-A24 epitope, SEQ ID NO:24.
XX
KW Antigen specific T-cell; detection; diagnosis; cancer specific T-cell;
KW cancer; tumour; cervical cancer; prostate cancer; cellular immunity;
KW immune therapy; cytostatic; immunostimulant; vaccine; antigenic peptide;
KW human; human leukocyte antigen; HLA-A24 epitope.
XX

OS Homo sapiens.
XX JP2002365286-A.
PN
XX 18-DEC-2002.
PD
XX 18-SEP-2001; 2001JP-00283413.
PF
XX 13-NOV-2000; 2000JP-00345094.
PR
XX (ITOY/) ITO Y.
PA
XX WPI; 2003-508315/48.
DR
XX A detection method of antigen specific T-cells, comprises the use of
PT plural antigenic peptides, useful in semi-quantitative determination of
PT cancer specific T-cell frequencies and for monitoring cellular immunity.
PT
XX Example 8; Page 10; 18pp; Japanese.
PS
XX The invention relates to a method for the detection of antigen specific T
XX -cells in a blood sample involving the use of a plurality of antigenic
CC peptides. The method comprises sampling of peripheral blood monocytes;
CC stimulation of the collected peripheral blood monocytes with antigens
CC without direct use of antigen presenting cells; and detection of T-cells
CC specific to the antigen in the stimulated monocytes. The method is
CC particularly used for the detection of cancer as it can be used in semi-
CC quantitative determination of cancer specific T-cells. It can also be
CC used for cancer vaccine therapy for patients with cervical or prostate
CC cancer. The method can additionally be used to monitor of cellular
CC immunity and cancer immune therapy by detection of specific T-cell
CC frequencies. Sequences ABR84367-ABR84380 represent HLA-A24 (human
CC leukocyte antigen) peptides of human origin used in an example from the
CC invention
XX
SQ Sequence 9 AA;
Query Match 92.5%; Score 37; DB 6; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 DXMIOGGD 8
Db | |||||
1 DFMIQGGD 8
RESULT 10
ADC17709
ID ADC17709 standard; peptide; 9 AA.
XX
XX ADC17709;
AC
XX 18-DEC-2003 (first entry)
DT
XX Modified cyclophilin B protein amino acids 91-99.
DE
XX cytostatic; antiallergic; vaccine; allergic reaction suppressor; antigen;
KW allergy; epitope; cancer; immunoglobulin E antibody; desensitization;
KW cyclophilin B.
KW
XX Synthetic.
OS
XX WO2003020306-A1.
PN
XX 13-MAR-2003.
PD
XX 28-AUG-2002; 2002WO-JP008641.
PF
XX 29-AUG-2001; 2001JP-00260046.
PR
XX (ITOH/) ITOH K.
PA
XX Itoh K, Yamada A;
PI

XX WPI; 2003-300831/29.
DR
XX Desensitizers or allergic reaction suppressors containing peptides
PT originating from the same antigenic substances as reaction-inducing
PT substances, useful for preventing or treating type I allergic diseases
PT and in cancer vaccines.
XX
PS Claim 8; SEQ ID NO 9; 49pp; Japanese.
XX
CC The invention relates to allergic reaction suppressors, comprising a
CC peptide which originates from the same antigenic substance as the
CC antigenic substance inducing the (peptide-originated) allergic reaction,
CC and containing an epitope different from the epitope participating in the
CC induction of the allergic reaction and yet does not induce the allergic
CC reaction. The desensitizers or allergic reaction suppressors are useful
CC for treating and preventing type I allergic diseases and in cancer
CC vaccines for preventing or treating cancer. The allergic reaction or
CC suppressors are also useful for suppressing an allergic reaction or
CC reducing immunoglobulin E antibody production, and for desensitization to
CC antigens. This sequence represents a peptide used in the invention and
CC corresponds to amino acids 91-99 of the cyclophilin B protein with the
CC Phe at position 92 replaced by a Tyr.
XX
SQ Sequence 9 AA;
Query Match 92.5%; Score 37; DB 7; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 DXMIOGGD 8
Db | |||||
1 DYMIQGGD 8
RESULT 11
ADC17702
ID ADC17702 standard; peptide; 9 AA.
XX
XX ADC17702;
AC
XX 18-DEC-2003 (first entry)
DT
XX Cyclophilin B protein amino acids 91-99.
DE
XX cytostatic; antiallergic; vaccine; allergic reaction suppressor; antigen;
KW allergy; epitope; cancer; immunoglobulin E antibody; desensitization;
KW cyclophilin B.
KW
XX Synthetic.
OS
XX WO2003020306-A1.
PN
XX 13-MAR-2003.
PD
XX 28-AUG-2002; 2002WO-JP008641.
PF
XX 29-AUG-2001; 2001JP-00260046.
PR
XX (ITOH/) ITOH K.
PA
XX Itoh K, Yamada A;
PI
XX WPI; 2003-300831/29.
DR
XX Desensitizers or allergic reaction suppressors containing peptides
PT originating from the same antigenic substances as reaction-inducing
PT substances, useful for preventing or treating type I allergic diseases
PT and in cancer vaccines.
XX
PS Claim 8; SEQ ID NO 2; 49pp; Japanese.
XX
CC The invention relates to allergic reaction suppressors, comprising a

CC peptide which originates from the same antigenic substance as the
CC antigenic substance inducing the (peptide-originated) allergic reaction,
CC and containing an epitope different from the epitope participating in the
CC induction of the allergic reaction and yet does not induce the allergic
CC reaction. The desensitizers or allergic reaction suppressors are useful
CC for treating and preventing type I allergic diseases and in cancer
CC vaccines for preventing or treating cancer. The allergic reaction or
CC suppressors are also useful for suppressing an allergic reaction or
CC reducing immunoglobulin E antibody production, and for desensitization to
CC antigens. This sequence represents a peptide used in the invention and
CC corresponds to amino acids 91-99 of the cyclophilin B protein.

XX Sequence 9 AA;

QY Query Match 92.5%; Score 37; DB 7; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1 DXMIQGGD 8
| | | | |
1 DFMIQGGD 8

RESULT 12
ADG89642
ID ADG89642 standard; peptide; 9 AA.

XX ADG89642;

XX 11-MAR-2004 (first entry)

XX Class I HLA-restricted widely expressed antigen #7.

KW metastatic cancer cell differentiation; mutated fibronectin;
KW metastatic cancer; class I HLA-restricted; widely antigen.

OS Unidentified.

XX WO2003100027-A2.

XX 04-DEC-2003.

XX 28-MAY-2003; 2003WO-US016736.

XX 28-MAY-2002; 2002US-0383530P.

XX (BAYU) BAYLOR COLLEGE MEDICINE.

XX Wang R;

XX WPI; 2004-035134/03.

XX Identifying a cell that differentiates into a metastatic cancer cell,
PT useful for preventing metastatic cancer, comprises identifying a mutated
PT fibronectin in the cell.

XX Disclosure; SEQ ID NO 85; 137pp; English.

XX The invention comprises a method for identifying a cell that will
CC differentiate into a metastatic cancer cell, the method involves
CC identifying a mutated fibronectin in the cell. The method of the
CC invention is useful for preventing metastatic cancer. The present amino
CC acid sequence represents a Class I HLA-restricted widely expressed
CC antigen.

XX Sequence 9 AA;

QY Query Match 92.5%; Score 37; DB 8; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DXMIQGGD 8
| | | | |

Db 1 DFMIQGGD 8
RESULT 13
AAY69957
ID AAY69957 standard; peptide; 9 AA.
XX AAY69957;
AC AAY69957;
XX 11-APR-2000 (first entry)
DT Human cyclophilin B peptide fragment #37.
XX Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX Homo sapiens.
OS WO9967288-A1.
XX 29-DEC-1999.
PD 24-JUN-1999; 99WO-JP003360.
XX 25-JUN-1998; 98JP-00178449.
PR (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX Itoh K, Gomi S;
PI WPI; 2000-116932/10.
XX Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX Claim 4; Page 61; 64pp; Japanese.

XX This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours

SQ Sequence 9 AA;

Query Match 67.5%; Score 27; DB 3; Length 9;
Best Local Similarity 83.3%; Pred. No. 1.7e+06;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 MIQGGD 8
| | | | |
Db 3 MCQGGD 8

RESULT 14

AAB12089

ID AAB12089 standard; peptide; 8 AA.

XX AAB12089;

XX 12-SEP-2003 (revised)

DT 17-JAN-2001 (first entry)

XX Ad7 cel peptide.

XX Rb-interacting zinc finger; R1Z; retinoblastoma; heart disease;
KW cell proliferation; cell differentiation; tissue repair;
KW transcription regulator; breast cancer; gene therapy; melanoma;
KW neuroblastoma; leukaemia; Parkinson's disease; Huntington's disease;
KW Alzheimer's disease; paralysis; motor neurone disorder; cel.
XX unidentified adenovirus.

PN US6069231-A.
XX
PD 30-MAY-2000.
XX
PF 18-AUG-1995; 95US-00516859.
XX
PR 18-AUG-1994; 94US-00292683.
PR 06-MAR-1995; 95US-00399411.
XX
XX (LJOL-) LA JOLLA CANCER RES FOUND.
PA
XX Huang S;
XX WPI; 2000-410879/35.
DR
XX New PR domain peptides comprising amino acid sequences from, for example
PT retinoblastoma-interacting zinc finger, or egl-43 proteins, for
PT regulating gene transcription and controlling cell proliferation and
PT differentiation.
XX
PS Disclosure; Fig 2; 91pp; English.
XX
CC The present sequence is Ad7 cel from Adenovirus. The cel domain is also
CC found in rat retinoblastoma (Rb)-interacting zinc finger (RIZ) protein
CC (AAB12028). RIZ is a nuclear phosphoprotein that acts as a cell
CC differentiation factor. RIZ can modulate cell growth by binding to Rb
CC protein, which is involved in regulating cell proliferation. In addition,
CC RIZ can act to regulate transcription. RIZ functions to maintain cells in
CC the G1 phase of the cell cycle, by interacting with Rb through the cr2
CC domain of RIZ. Rat RIZ protein contains a number of GTPase motifs (see
CC AAB12037 to AAB12056 and AAB12099 to AAB12104). RIZ protein is a PR
CC domain protein and is present primarily in the cell nucleus. RIZ gene
CC mutations may be implicated in various cancers such as melanoma,
CC neuroblastoma, leukaemia and breast cancer, and so the RIZ gene may be
CC used in gene therapy for these disorders. Since RIZ protein is implicated
CC in cell cycle arrest, inhibition of RIZ activity may be useful in
CC neurodegenerative disorder therapy e.g. for Parkinson's, Huntington's or
CC Alzheimer's disease, paralysis or motor neurone disorders, or cardiac
CC disorders e.g. heart disease, where the ability to induce neural/ cardiac
CC tissue proliferation would be useful. The present sequence was used for
CC sequence homology comparison. (Updated on 12-SEP-2003 to standardise OS
CC field)
XX
SQ Sequence 8 AA;
Query Match 62.5%; Score 25; DB 3; Length 8;
Best Local Similarity 37.5%; Pred. No. 1.7e+06;
Matches 3; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 1 DXMIQGGD 8
Db : : : : :
1 EDLLEGGD 8
RESULT 15
ADE84662
ID ADE84662 standard; peptide; 8 AA.
XX
AC ADE84662;
XX
DT 29-JAN-2004 (first entry)
XX
DE Adenovirus 7 E1A gene cel domain.
XX
KW cytostatic; tumor; gene therapy;
KW retinoblastoma protein-interacting zinc protein; RIZ; neuroblastoma;
KW melanoma; cardiac cell growth inducer; neuronal cell growth inducer;
KW adenovirus; E1A; cel.
XX
OS unidentified adenovirus.
XX
PN US6468985-B1.
XX

PD 22-OCT-2002.
XX
PF 17-MAR-2000; 2000US-00528706.
XX
PR 18-AUG-1994; 94US-00292683.
PR 06-MAR-1995; 95US-00399411.
PR 18-AUG-1995; 95US-00516859.
XX
PA (BURN-) BURNHAM INST.
XX
PI Huang S;
XX WPI; 2003-147106/14.
DR
XX Reducing the growth of tumor cell having mammalian retinoblastoma protein
PT -interacting zinc finger proteins in a subject, comprises administering a
PT nucleic acid molecule encoding RIZ at or adjacent to the site of tumor.
XX
PS Example 3; SEQ ID NO 75; 49pp; English.
XX
CC The invention describes a method of reducing growth of a tumour cell
CC having a mutant mammalian retinoblastoma (Rb) protein-interacting zinc
CC finger (RIZ) protein in a subject. The method comprises administering a
CC nucleic acid molecule (I) encoding RIZ at or adjacent to tumour site. (I)
CC is administered at the site of the tumour. The method is useful for
CC reducing the growth of a tumour cell e.g. neuroblastoma or melanoma cell
CC having mutant RIZ protein. The method is useful for inducing growth of a
CC cardiac cell or a neuronal cell in a subject, and for effecting normal
CC growth control to a tumour cell or causing differentiation of tumour
CC cells. This is the amino acid sequence of an adenovirus cr1 domain used
CC in a comparison with the cel domain of RIZ protein.
XX
SQ Sequence 8 AA;
Query Match 62.5%; Score 25; DB 7; Length 8;
Best Local Similarity 37.5%; Pred. No. 1.7e+06;
Matches 3; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 1 DXMIQGGD 8
Db : : : : :
1 EDLLEGGD 8
Search completed: October 21, 2004, 07:21:01
Job time : 86 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:13:10 ; Search time 21.5 Seconds
(without alignments)
27.761 Million cell updates/sec

Title: US-09-720-469A-38
Perfect score: 40
Sequence: 1 DXMIQGGDX 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 130155

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	25	62.5	8	2	US-08-459-568-75
2	25	62.5	8	2	US-08-399-411-75
3	25	62.5	8	3	US-08-516-859A-75
4	25	62.5	8	3	US-09-586-472-75
5	25	62.5	8	4	US-09-528-706-75
6	25	62.5	9	1	US-08-457-172-1
7	23	57.5	8	1	US-08-487-860-62
8	23	57.5	11	3	US-08-953-327-1
9	23	57.5	11	3	US-09-472-579-1
10	22	55.0	9	1	US-08-215-805A-7
11	22	55.0	9	1	US-08-215-805A-52
12	22	55.0	9	1	US-08-215-805A-58
13	21	52.5	10	3	US-09-296-284-10
14	21	52.5	11	1	US-07-620-426B-19
15	21	52.5	11	1	US-07-662-007B-19
16	21	52.5	11	1	US-07-824-247-19
17	21	52.5	11	3	US-08-470-204A-19
18	20	50.0	9	1	US-08-215-805A-48
19	20	50.0	9	1	US-08-215-805A-61
20	20	50.0	9	1	US-08-215-805A-74
21	20	50.0	9	3	US-09-139-802-84
22	20	50.0	9	4	US-09-659-786-84
23	20	50.0	9	4	US-08-926-914-84
24	20	50.0	10	6	5196404-18
25	20	50.0	10	6	5433940-25
26	20	50.0	12	1	US-08-633-779-3
27	20	50.0	12	1	US-08-633-779-5

28	20	50.0	12	4	US-09-846-350A-1	Sequence 1, Appli
29	20	50.0	12	4	US-09-569-037-1	Sequence 1, Appli
30	20	50.0	12	4	US-09-569-037-15	Sequence 15, Appl
31	19	47.5	4	1	US-08-329-820-227	Sequence 227, App
32	19	47.5	6	1	US-08-329-820-101	Sequence 101, App
33	19	47.5	6	1	US-08-742-256-13	Sequence 13, Appl
34	19	47.5	6	4	US-09-113-696B-13	Sequence 13, Appl
35	19	47.5	6	6	RE34606-25	Patent No. RE34,60
36	19	47.5	7	1	US-07-940-861-39	Sequence 39, Appl
37	19	47.5	7	1	US-08-459-512-39	Sequence 39, Appl
38	19	47.5	7	1	US-08-798-897-27	Sequence 27, Appl
39	19	47.5	7	2	US-08-244-496-70	Sequence 70, Appl
40	19	47.5	7	2	US-08-978-523-27	Sequence 27, Appl
41	19	47.5	7	2	US-08-459-657-39	Sequence 39, Appl
42	19	47.5	7	2	US-08-460-132-39	Sequence 39, Appl
43	19	47.5	7	5	PCT-US92-02050-39	Sequence 39, Appl
44	19	47.5	8	2	US-08-286-819A-36	Sequence 36, Appl
45	19	47.5	8	3	US-08-980-357-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-08-459-568-75
; Sequence 75, Application US/08459568
; Patent No. 5811304
; GENERAL INFORMATION:
; APPLICANT: Huang, Shi
; TITLE OF INVENTION: Retinoblastoma Protein - Interacting
; TITLE OF INVENTION: Zinc Finger Proteins
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/459,568
; FILING DATE: 02-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/399,411
; FILING DATE: 06-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 1264
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-459-568-75

Query Match 62.5%; Score 25; DB 2; Length 8;
Best Local Similarity 37.5%; Pred. No. 3.8e+05;
Matches 3; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DXMIQGGD 8
Db 1 EDLLEGGD 8

RESULT 2
US-08-399-411-75
; Sequence 75, Application US/08399411
; Patent No. 5831008
; GENERAL INFORMATION:
; APPLICANT: Huang, Shi
; TITLE OF INVENTION: Retinoblastoma Protein - Interacting
; TITLE OF INVENTION: Zinc Finger Proteins
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/399,411
; FILING DATE: 06-MAR-1995
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 1264
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-399-411-75

Query Match 62.5%; Score 25; DB 2; Length 8;
Best Local Similarity 37.5%; Pred. No. 3.8e+05;
Matches 3; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 DXMIQGGD 8
: : : : :
Db 1 EDLLEGGD 8

RESULT 3
US-08-516-859A-75
; Sequence 75, Application US/08516859A
; Patent No. 6069231
; GENERAL INFORMATION:
; APPLICANT: Huang, Shi
; TITLE OF INVENTION: Retinoblastoma Protein - Interacting
; TITLE OF INVENTION: Zinc Finger Proteins
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/516,859A
; FILING DATE: 18-AUG-1995

; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/399,411
; FILING DATE: 06-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/292,683
; FILING DATE: 18-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 1776
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-516-859A-75

Query Match 62.5%; Score 25; DB 3; Length 8;
Best Local Similarity 37.5%; Pred. No. 3.8e+05;
Matches 3; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 DXMIQGGD 8
: : : : :
Db 1 EDLLEGGD 8

RESULT 4
US-09-586-472-75
; Sequence 75, Application US/09586472
; Patent No. 6323335
; GENERAL INFORMATION:
; APPLICANT: Huang, Shi
; TITLE OF INVENTION: Retinoblastoma Protein - Interacting
; Zinc Finger Proteins
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/586,472
; FILING DATE: 01-Jun-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/528,706
; FILING DATE: 17-MAR-2000
; APPLICATION NUMBER: US 08/516,859
; FILING DATE: 18-AUG-1995
; APPLICATION NUMBER: US 08/399,411
; FILING DATE: 06-MAR-1995
; APPLICATION NUMBER: US 08/292,683
; FILING DATE: 18-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 4130
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:

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;
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 75:
US-09-586-472-75
Query Match          62.5%; Score 25; DB 3; Length 8;
Best Local Similarity 37.5%; Pred. No. 3.8e+05;
Matches 3; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 DXMIQGGD 8
Db 1 EDLLEGGD 8

RESULT 5
US-09-528-706-75
; Sequence 75, Application US/09528706
; Patent No. 6468985
; GENERAL INFORMATION:
; APPLICANT: Huang, Shi
; TITLE OF INVENTION: Retinoblastoma Protein - Interacting
; TITLE OF INVENTION: Zinc Finger Proteins
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/528,706
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/516,859
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/292,683
; FILING DATE: 18-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 1776
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-09-528-706-75
Query Match          62.5%; Score 25; DB 4; Length 8;
Best Local Similarity 37.5%; Pred. No. 3.8e+05;
Matches 3; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 DXMIQGGD 8
Db 1 EDLLEGGD 8

RESULT 6
US-08-457-172-1
; Sequence 1, Application US/08457172
; Patent No. 5622837
; GENERAL INFORMATION:
; APPLICANT: Hans Scheefers, Ursula Scheefers-Borchel and
; APPLICANT: Andreas Sziegoleit
; TITLE OF INVENTION: PANCREAS ELASTASE 1-SPECIFIC ANTIBODY, A PROCESS FOR
; TITLE OF INVENTION: OBTAINING IT, AND A TEST KIT CONTAINING SUCH ANTIBODY
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham
; STREET: 30 Rockefeller Plaza
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10112
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.24
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/457,172
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/220,395
; FILING DATE:
; APPLICATION NUMBER: US 07/969,173
; FILING DATE: 29-MAR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 42883/JPW/AJM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 977-9550
; TELEFAX: (212) 977-9809
; TELEX: 422523 COOP UI
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: homo sapien
; CELL TYPE: pancreatic
US-08-457-172-1
Query Match          62.5%; Score 25; DB 1; Length 9;
Best Local Similarity 66.7%; Pred. No. 3.8e+05;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 MIQGGD 8
Db 2 MVAGGD 7

RESULT 7
US-08-487-860-62
; Sequence 62, Application US/08487860
; Patent No. 5792456
; GENERAL INFORMATION:
; APPLICANT: Yelton, Dale
; APPLICANT: Glaser, Scott
; APPLICANT: Huse, William
; APPLICANT: Rosok, Mae J.
; TITLE OF INVENTION: No. 5792456el Mutant BR96 Antibodies and
; TITLE OF INVENTION: Functional Equivalents Reactive With Human Carcinomas
; NUMBER OF SEQUENCES: 62
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: CA
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COUNTRY: USA
ZIP: 90025-3395
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,860
FILING DATE: 07-JUN-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436.16US01
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-487-860-62

Query Match 57.5%; Score 23; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 3.8e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 QGGD 8
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Db 2 QGGD 5

RESULT 8
US-08-953-327-1
; Sequence 1, Application US/08953327
; Patent No. 6033915
; GENERAL INFORMATION:
; APPLICANT: Staud, Roland
; TITLE OF INVENTION: MATERIALS AND METHOD FOR THE DETECTION
; TITLE OF INVENTION: AND TREATMENT OF WEGENER'S GRANULOMATOSIS
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Saliwanchik & Saliwanchik
; STREET: 2421 N.W. 41st Street, Suite A-1
; CITY: Gainesville
; STATE: FL
; COUNTRY: US
; ZIP: 32606-6669
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/953,327
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/028,701
; FILING DATE: 18-OCT-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Saliwanchik, David R.
; REGISTRATION NUMBER: 31,794
; REFERENCE/DOCKET NUMBER: UF-171
; TELEPHONE: (352) 375-8100
; TELEFAX: (352) 372-5800
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-487-860-62

LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-953-327-1
Query Match 57.5%; Score 23; DB 3; Length 11;
Best Local Similarity 62.5%; Pred. No. 1.9e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1 DXMIQGGD 8
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Db 3 DGIIQGD 10

RESULT 9
US-09-472-579-1
; Sequence 1, Application US/09472579
; Patent No. 6277955
; GENERAL INFORMATION:
; APPLICANT: Staud, Roland
; TITLE OF INVENTION: MATERIALS AND METHOD FOR THE DETECTION
; TITLE OF INVENTION: AND TREATMENT OF WEGENER'S GRANULOMATOSIS
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Saliwanchik & Saliwanchik
; STREET: 2421 N.W. 41st Street, Suite A-1
; CITY: Gainesville
; STATE: FL
; COUNTRY: US
; ZIP: 32606-6669
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/472,579
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/953,327
; FILING DATE:
; APPLICATION NUMBER: 60/028,701
; FILING DATE: 18-OCT-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Saliwanchik, David R.
; REGISTRATION NUMBER: 31,794
; REFERENCE/DOCKET NUMBER: UF-171
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (352) 375-8100
; TELEFAX: (352) 372-5800
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-472-579-1

Query Match 57.5%; Score 23; DB 3; Length 11;
Best Local Similarity 62.5%; Pred. No. 1.9e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DXMIQGGD 8
|:|:|
Db 3 DGIIQGD 10

RESULT 10
US-08-215-805A-7

; Sequence 7, Application US/08215805A
; Patent No. 5559008
; GENERAL INFORMATION:
; APPLICANT: Chang, Yung-Fu
; TITLE OF INVENTION: LEUKOTOXIN GENE FROM PASTEURRELLA
; TITLE OF INVENTION: SUI5
; NUMBER OF SEQUENCES: 84
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: USA
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/215,805A
; FILING DATE: 22-MAR-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Timian, Susan J.
; REGISTRATION NUMBER: 34,103
; REFERENCE/DOCKET NUMBER: 19603/61 (D-1329A)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1636
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: Pasteurella suis
; STRAIN: 5943
; IMMEDIATE SOURCE:
; LIBRARY: P. suis DNA in Bacteriophage lambda-dash
; CLONE: (Lambda)ycf33-37
US-08-215-805A-7

Query Match 55.0%; Score 22; DB 1; Length 9;
Best Local Similarity 80.0%; Pred. No. 3.8e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 IQGGD 8
| | | |
Db 1 IDGGD 5

RESULT 11
US-08-215-805A-52
; Sequence 52, Application US/08215805A
; Patent No. 5559008
; GENERAL INFORMATION:
; APPLICANT: Chang, Yung-Fu
; TITLE OF INVENTION: LEUKOTOXIN GENE FROM PASTEURRELLA
; TITLE OF INVENTION: SUI5
; NUMBER OF SEQUENCES: 84
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: USA
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/215,805A
; FILING DATE: 22-MAR-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Timian, Susan J.
; REGISTRATION NUMBER: 34,103
; REFERENCE/DOCKET NUMBER: 19603/61 (D-1329A)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1636
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 52:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: Actinobacillus pleuropneumoniae
US-08-215-805A-52

Query Match 55.0%; Score 22; DB 1; Length 9;
Best Local Similarity 60.0%; Pred. No. 3.8e+05;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 4 IQGGD 8
: : | | |
Db 1 LEGGD 5

RESULT 12
US-08-215-805A-58
; Sequence 58, Application US/08215805A
; Patent No. 5559008
; GENERAL INFORMATION:
; APPLICANT: Chang, Yung-Fu
; TITLE OF INVENTION: LEUKOTOXIN GENE FROM PASTEURRELLA
; TITLE OF INVENTION: SUI5
; NUMBER OF SEQUENCES: 84
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: USA
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/215,805A
; FILING DATE: 22-MAR-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Timian, Susan J.
; REGISTRATION NUMBER: 34,103
; REFERENCE/DOCKET NUMBER: 19603/61 (D-1329A)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1636
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 58:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:

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; ORGANISM: Actinobacillus pleuropneumoniae
US-08-215-805A-58

Query Match          55.0%; Score 22; DB 1; Length 9;
Best Local Similarity 80.0%; Pred. No. 3.8e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      4 IQGGD 8
Db      1 IHGGD 5

RESULT 13
US-09-296-284-10
; Sequence 10, Application US/09296284A
; Patent No. 6204040
; GENERAL INFORMATION:
; APPLICANT: Choi, Eui-Sung
; APPLICANT: Rhee, Sang-Ki
; APPLICANT: Lee, Eun-Hae
; TITLE OF INVENTION: Gluconobacter Suboxydans Sorbitol Dehydrogenase, Genes
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: 1533.0870000
; CURRENT APPLICATION NUMBER: US/09/296,284A
; CURRENT FILING DATE: 1999-04-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Gluconobacter suboxydans
US-09-296-284-10

Query Match          52.5%; Score 21; DB 3; Length 10;
Best Local Similarity 57.1%; Pred. No. 4.2e+02;
Matches 4; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 DXMIQGG 7
Db      4 DALIQRG 10

RESULT 14
US-07-620-426B-19
; Sequence 19, Application US/07620426B
; Patent No. 5298421
; GENERAL INFORMATION:
; APPLICANT: Davies, Huw Maelor
; APPLICANT: Pollard, Michael Roman
; APPLICANT: Voekler, Toni Alois
; TITLE OF INVENTION: Plant Thioesterases
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Calgene, Inc.
; STREET: 1920 Fifth Street
; CITY: Davis
; STATE: California
; COUNTRY: USA
; ZIP: 95616
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 720 KB storage
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh 6.0.7
; SOFTWARE: MicrosoftWord 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/620,426B
; FILING DATE: 19901130
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/514,030
; FILING DATE: 26-APRIL-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Elizabeth Lassen
```

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; REGISTRATION NUMBER: 31,845
; NAME: Donna E. Scherer
; REGISTRATION NUMBER: 34,719
; REFERENCE/DOCKET NUMBER: CGNE 70-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 916-753-6313
; TELEFAX: 916-753-1510
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-07-620-426B-19

Query Match          52.5%; Score 21; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 4.6e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      4 IQGG 7
Db      3 IQGG 6

RESULT 15
US-07-662-007B-19
; Sequence 19, Application US/07662007B
; Patent No. 5344771
; GENERAL INFORMATION:
; APPLICANT: Davies, Huw Maelor
; APPLICANT: Pollard, Michael Roman
; APPLICANT: Voekler, Toni Alois
; APPLICANT: Thompson, Gregory A.
; TITLE OF INVENTION: Plant Thioesterases
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Calgene, Inc.
; STREET: 1920 Fifth Street
; CITY: Davis
; STATE: California
; COUNTRY: USA
; ZIP: 95616
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 720 KB storage
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh 6.0.7
; SOFTWARE: MicrosoftWord 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/662,007B
; FILING DATE: 19910408
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/514,030
; FILING DATE: 26-APR-1990
; APPLICATION NUMBER: 07/620,426
; FILING DATE: 30-NOV-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Elizabeth Lassen
; REGISTRATION NUMBER: 31,845
; REFERENCE/DOCKET NUMBER: CGNE 70-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 916-753-6313
; TELEFAX: 916-753-1510
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-07-662-007B-19

Query Match          52.5%; Score 21; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 4.6e+02;
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Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 IQGG 7
| | | |
Db 3 IQGG 6

Search completed: October 21, 2004, 07:29:29
Job time : 22.5 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:15:25 ; Search time 61.75 Seconds
(without alignments)
47.187 Million cell updates/sec

Title: US-09-720-469A-38
Perfect score: 40
Sequence: 1 DXMIQGGDX 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1364641 seqs, 323758627 residues

Total number of hits satisfying chosen parameters: 193469

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	37	92.5	9	15	US-10-447-161-85
2	37	92.5	9	16	US-10-788-016-2
3	37	92.5	9	16	US-10-788-016-9
4	22	55.0	12	16	US-10-128-520-96
5	21	52.5	9	14	US-10-210-148-9
6	21	52.5	9	14	US-10-210-148-14
7	21	52.5	11	14	US-10-194-985-32
8	21	52.5	11	15	US-10-356-257-161
9	20	50.0	5	14	US-10-076-047A-124
10	20	50.0	5	16	US-10-620-052A-50
11	20	50.0	9	9	US-09-765-086-84
12	20	50.0	9	9	US-09-912-787-35
13	20	50.0	9	13	US-10-014-326-21
14	20	50.0	9	14	US-10-264-374-84

15	20	50.0	9	14	US-10-375-992-84	Sequence 84, Appl
16	20	50.0	9	14	US-10-137-867-10	Sequence 10, Appl
17	20	50.0	9	15	US-10-264-374-84	Sequence 84, Appl
18	20	50.0	9	16	US-10-375-992-84	Sequence 84, Appl
19	20	50.0	10	9	US-09-846-350-1	Sequence 1, Appli
20	20	50.0	11	9	US-09-846-342-1	Sequence 1, Appli
21	20	50.0	12	9	US-09-845-725-1	Sequence 1, Appli
22	20	50.0	12	14	US-10-148-687-32	Sequence 32, Appl
23	19	47.5	4	14	US-10-084-388A-2	Sequence 2, Appli
24	19	47.5	5	14	US-10-076-047A-130	Sequence 130, App
25	19	47.5	5	15	US-10-436-549-36	Sequence 36, Appl
26	19	47.5	5	16	US-10-712-425-36	Sequence 36, Appl
27	19	47.5	5	17	US-10-723-933-96	Sequence 96, Appl
28	19	47.5	6	9	US-09-113-696B-13	Sequence 13, Appl
29	19	47.5	6	17	US-10-723-933-25	Sequence 25, Appl
30	19	47.5	6	17	US-10-723-933-97	Sequence 97, Appl
31	19	47.5	6	17	US-10-723-933-120	Sequence 120, App
32	19	47.5	7	14	US-10-190-082-84	Sequence 84, Appl
33	19	47.5	7	14	US-10-190-082-159	Sequence 159, App
34	19	47.5	7	16	US-10-481-180-426	Sequence 426, App
35	19	47.5	7	17	US-10-723-933-7	Sequence 7, Appli
36	19	47.5	7	17	US-10-723-933-12	Sequence 12, Appl
37	19	47.5	7	17	US-10-723-933-26	Sequence 26, Appl
38	19	47.5	7	17	US-10-723-933-88	Sequence 88, Appl
39	19	47.5	7	17	US-10-723-933-98	Sequence 98, Appl
40	19	47.5	8	15	US-10-462-452-445	Sequence 445, App
41	19	47.5	8	15	US-10-601-953-574	Sequence 574, App
42	19	47.5	8	16	US-10-322-266-446	Sequence 446, App
43	19	47.5	8	17	US-10-723-933-11	Sequence 11, Appl
44	19	47.5	8	17	US-10-723-933-27	Sequence 27, Appl
45	19	47.5	8	17	US-10-723-933-87	Sequence 87, Appl

ALIGNMENTS

RESULT 1
US-10-447-161-85
; Sequence 85, Application US/10447161
; Publication No. US20040023314A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Rong-fu
; TITLE OF INVENTION: Mutant Fibronectin and Tumor Metastasis
; FILE REFERENCE: HO-P02484US1
; CURRENT APPLICATION NUMBER: US/10/447,161
; CURRENT FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: 60/383,530
; PRIOR FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 85
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-447-161-85

Query Match 92.5%; Score 37; DB 15; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.2e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DXMIQGGD 8
|
Db 1 DFMIQGGD 8

RESULT 2
US-10-788-016-2
; Sequence 2, Application US/10788016
; Publication No. US20040141992A1
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo

```

; TITLE OF INVENTION: Desensitizers
; FILE REFERENCE: 3190-049
; CURRENT APPLICATION NUMBER: US/10/788,016
; CURRENT FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/JP02/08641
; PRIOR FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: JP P2001-260046
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Peptide consisting of 9 amino acid residues from the 91st residue
; OTHER INFORMATION: to the 99th residue of cyclophilin B
US-10-788-016-2

Query Match          92.5%; Score 37; DB 16; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.2e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 DXMIQGGD 8
      | | | | |
Db      1 DFMIQGGD 8

RESULT 3
US-10-788-016-9
; Sequence 9, Application US/10788016
; Publication No. US20040141992A1
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo
; TITLE OF INVENTION: Desensitizers
; FILE REFERENCE: 3190-049
; CURRENT APPLICATION NUMBER: US/10/788,016
; CURRENT FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/JP02/08641
; PRIOR FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: JP P2001-260046
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 9
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Designed peptide based on the peptide consisting of 9 amino acid
; OTHER INFORMATION: residues from the 91st residue to the 99th residue of
; OTHER INFORMATION: cyclophilin B
US-10-788-016-9

Query Match          92.5%; Score 37; DB 16; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.2e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 DXMIQGGD 8
      | | | | |
Db      1 DYMIQGGD 8

RESULT 4
US-10-128-520-96
; Sequence 96, Application US/10128520
; Publication No. US20040105862A1
; GENERAL INFORMATION:
; APPLICANT: PAN et al.
; TITLE OF INVENTION: Human TIMP-1 Antibodies
; FILE REFERENCE: 02973.00073
; CURRENT APPLICATION NUMBER: US/10/128,520
; CURRENT FILING DATE: 2002-04-24
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; PRIOR APPLICATION NUMBER: US 60/285,683
; PRIOR FILING DATE: 2001-04-24
; NUMBER OF SEQ ID NOS: 381
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 96
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-128-520-96

Query Match          55.0%; Score 22; DB 16; Length 12;
Best Local Similarity 37.5%; Pred. No. 9.7e+02;
Matches 3; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      1 DXMIQGGD 8
      | | | | |
Db      5 DQLLQGE 12

RESULT 5
US-10-210-148-9
; Sequence 9, Application US/10210148
; Publication No. US20030171280A1
; GENERAL INFORMATION:
; APPLICANT: Soderstrom, Karl Petter
; TITLE OF INVENTION: Compositions And Methods For Modulation Of Immune Response
; FILE REFERENCE: TROM0002
; CURRENT APPLICATION NUMBER: US/10/210,148
; CURRENT FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: PCT/US02/24311
; PRIOR FILING DATE: 2002-07-31
; NUMBER OF SEQ ID NOS: 117
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 9
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-210-148-9

Query Match          52.5%; Score 21; DB 14; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      3 MIQGGD 8
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Db      2 MLQGGD 7

RESULT 6
US-10-210-148-14
; Sequence 14, Application US/10210148
; Publication No. US20030171280A1
; GENERAL INFORMATION:
; APPLICANT: Soderstrom, Karl Petter
; TITLE OF INVENTION: Compositions And Methods For Modulation Of Immune Response
; FILE REFERENCE: TROM0002
; CURRENT APPLICATION NUMBER: US/10/210,148
; CURRENT FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: PCT/US02/24311
; PRIOR FILING DATE: 2002-07-31
; NUMBER OF SEQ ID NOS: 117
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 14
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-210-148-14

Query Match          52.5%; Score 21; DB 14; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      3 MIQGGD 8
      | | | | |
Db      3 MLQGGD 7

RESULT 7
US-10-128-520-96
; Sequence 96, Application US/10128520
; Publication No. US20040105862A1
; GENERAL INFORMATION:
; APPLICANT: PAN et al.
; TITLE OF INVENTION: Human TIMP-1 Antibodies
; FILE REFERENCE: 02973.00073
; CURRENT APPLICATION NUMBER: US/10/128,520
; CURRENT FILING DATE: 2002-04-24
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Db 2 MLQGV D 7
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RESULT 7
US-10-194-985-32
; Sequence 32, Application US/10194985
; Publication No. US20030105287A1
; GENERAL INFORMATION:
; APPLICANT: Schaeffer, Michael
; APPLICANT: Schneiderbauer, Michaela
; APPLICANT: Weidler, Sascha
; APPLICANT: Hallek, Michael
; APPLICANT: GSF Forschungszentrum fuer Umwelt und Gesundheit GmbH
; TITLE OF INVENTION: Inhibition of the Proliferation of Cells of the
; TITLE OF INVENTION: Multiple Myeloma
; FILE REFERENCE: 080345-000100US
; CURRENT APPLICATION NUMBER: US/10/194,985
; CURRENT FILING DATE: 2002-07-12
; PRIOR APPLICATION NUMBER: DE 19941897.7
; PRIOR FILING DATE: 1999-09-02
; PRIOR APPLICATION NUMBER: US 09/625,225
; PRIOR FILING DATE: 2000-07-24
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:P8 peptide
; OTHER INFORMATION: subfragment of Hck binding region of gp130
US-10-194-985-32

Query Match 52.5%; Score 21; DB 14; Length 11;
Best Local Similarity 60.0%; Pred. No. 1.4e+03;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 4 IQGGD 8
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Db 2 VDGGD 6

RESULT 8
US-10-356-257-161
; Sequence 161, Application US/10356257
; Publication No. US20040087767A1
; GENERAL INFORMATION:
; APPLICANT: LAZARUS, ROBERT A.
; APPLICANT: MAUN, HENRY R.
; TITLE OF INVENTION: FvIIa Antagonists
; FILE REFERENCE: P1950R1
; CURRENT APPLICATION NUMBER: US/10/356,257
; CURRENT FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: US 60/355,420
; PRIOR FILING DATE: 2002-02-06
; NUMBER OF SEQ ID NOS: 355
; SEQ ID NO 161
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: sequence is synthesized
US-10-356-257-161

Query Match 52.5%; Score 21; DB 15; Length 11;
Best Local Similarity 60.0%; Pred. No. 1.4e+03;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 MIQGG 7
|:|:|
Db 7 MVRGG 11

RESULT 9
US-10-076-047A-124
; Sequence 124, Application US/10076047A
; Publication No. US20030152935A1
; GENERAL INFORMATION:
; APPLICANT: Herath, Herath Mudiyansele Athula Chandrasiri
; TITLE OF INVENTION: Proteins, Genes and Their Use for
; TITLE OF INVENTION: Diagnosis and Treatment of Breast Cancer
; FILE REFERENCE: 2543-1-026
; CURRENT APPLICATION NUMBER: US/10/076,047A
; CURRENT FILING DATE: 2002-02-13
; PRIOR APPLICATION NUMBER: GB 9919258.5
; PRIOR FILING DATE: 1999-08-13
; PRIOR APPLICATION NUMBER: GB 0007754.5
; PRIOR FILING DATE: 2000-03-30
; PRIOR APPLICATION NUMBER: PCT/GB00/03143
; PRIOR FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 351
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-076-047A-124

Query Match 50.0%; Score 20; DB 14; Length 5;
Best Local Similarity 60.0%; Pred. No. 1.2e+06;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 MIQGG 7
|:|:|
Db 1 LIEGG 5

RESULT 10
US-10-620-052A-50
; Sequence 50, Application US/10620052A
; Publication No. US20040126784A1
; GENERAL INFORMATION:
; APPLICANT: Hitoshi, Yasumichi
; APPLICANT: Jenkins, Yonchu
; APPLICANT: Markovtsov, Vadim
; APPLICANT: Rigel Pharmaceuticals, Inc.
; TITLE OF INVENTION: Modulators of Cellular Proliferation
; FILE REFERENCE: 021044-004010US
; CURRENT APPLICATION NUMBER: US/10/620,052A
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 60/395,443
; PRIOR FILING DATE: 2002-07-12
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 50
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:consensus
; OTHER INFORMATION: peptide
US-10-620-052A-50

Query Match 50.0%; Score 20; DB 16; Length 5;
Best Local Similarity 75.0%; Pred. No. 1.2e+06;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 5 QGGD 8
|:|:|
Db 1 EGGD 4

RESULT 11
US-09-765-086-84
; Sequence 84, Application US/09765086

Patent No. US20010046498A1
; GENERAL INFORMATION:
; APPLICANT: Ruoslahti, Erkki
; APPLICANT: Pasqualini, Renata
; APPLICANT: Wadhi, Arap
; APPLICANT: Bredesen, Dale E.
; APPLICANT: Ellerby, H. Michael
; TITLE OF INVENTION: Chimeric Prostate-Homing Peptides With
; FILE REFERENCE: P-LJ 3844
; CURRENT APPLICATION NUMBER: US/09/765,086
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: US 09/489,582
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 235
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 84
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-09-765-086-84

Query Match 50.0%; Score 20; DB 9; Length 9;
Best Local Similarity 50.0%; Pred. No. 1.2e+06;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 3 MIQGG 8
|.:||
Db 3 MVRDGD 8

RESULT 12
US-09-912-787-35
; Sequence 35, Application US/09912787
; Patent No. US20020119149A1
; GENERAL INFORMATION:
; APPLICANT: JAKOBSEN, Bent Karsten
; APPLICANT: BOULTER, Jonathan Michael
; TITLE OF INVENTION: Multivalent T Cell Receptor Complexes
; FILE REFERENCE: 102286.410DIV
; CURRENT APPLICATION NUMBER: US/09/912,787
; CURRENT FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: US 09/334,969
; PRIOR FILING DATE: 1999-06-17
; PRIOR APPLICATION NUMBER: PCT/GB99 01583
; PRIOR FILING DATE: 1999-05-19
; PRIOR APPLICATION NUMBER: GB 9810759.2
; PRIOR FILING DATE: 1998-05-19
; PRIOR APPLICATION NUMBER: GB 9821129.5
; PRIOR FILING DATE: 1998-09-29
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: New
; OTHER INFORMATION: N-terminal amino acid sequence of the truncated
; OTHER INFORMATION: Vbeta17 chain of the human JM22 Influenza Matrix
; OTHER INFORMATION: peptide/HLA-A0201 restricted TCR.
US-09-912-787-35

Query Match 50.0%; Score 20; DB 9; Length 9;
Best Local Similarity 60.0%; Pred. No. 1.2e+06;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 MIQGG 7
|.:||
Db 1 MVDGG 5

RESULT 13
US-10-014-326-21
; Sequence 21, Application US/10014326
; Publication No. US20020142389A1
; GENERAL INFORMATION:
; APPLICANT: JAKOBSEN, Bent Karsten
; APPLICANT: BELL, John Irving
; APPLICANT: GAO, George Fu
; APPLICANT: WILLCOX, Benjamin Ernest
; APPLICANT: BOULTER, Jonathan Michael
; TITLE OF INVENTION: Soluble T Cell Receptor
; FILE REFERENCE: 102286.409
; CURRENT APPLICATION NUMBER: US/10/014,326
; CURRENT FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/335,087
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-06-17
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: GB/9810759.2
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-05-19
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: New N-terminal amino acid sequence of truncated V
; OTHER INFORMATION: beta17 chain of the human JM22 Influenza matrix
; OTHER INFORMATION: peptide-HLA-A0201 restricted TCR. (Figure 9B)
; OTHER INFORMATION: Description of Artificial Sequence: New N-terminal
; OTHER INFORMATION: amino acid sequence of truncated V beta17 chain of
; OTHER INFORMATION: the JM22 Influenza matrix peptide-HLA-A0201
; OTHER INFORMATION: restricted TCR. (Figure 9A)
US-10-014-326-21

Query Match 50.0%; Score 20; DB 13; Length 9;
Best Local Similarity 60.0%; Pred. No. 1.2e+06;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 MIQGG 7
|.:||
Db 1 MVDGG 5

RESULT 14
US-10-264-374-84
; Sequence 84, Application US/10264374
; Publication No. US20030113320A1
; GENERAL INFORMATION:
; APPLICANT: Ruoslahti, Erkki
; APPLICANT: Pasqualini, Renata
; TITLE OF INVENTION: NGR Receptor and Methods of Identifying Tumor Homing
; TITLE OF INVENTION: Molecules That Home to Angiogenic Vasculature Using
; TITLE OF INVENTION: Same
; FILE REFERENCE: P-LJ 3203
; CURRENT APPLICATION NUMBER: US/10/264,374
; CURRENT FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: US/09/139,802
; PRIOR FILING DATE: 1998-08-25
; PRIOR APPLICATION NUMBER: 08/926,914
; PRIOR FILING DATE: 1997-09-10
; PRIOR APPLICATION NUMBER: 08/710,067
; PRIOR FILING DATE: 1996-09-10
; NUMBER OF SEQ ID NOS: 226
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 84
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-264-374-84

Query Match 50.0%; Score 20; DB 14; Length 9;
 Best Local Similarity 50.0%; Pred. No. 1.2e+06;
 Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 3 MIQGGD 8
 |::||
 Db 3 MVRDGD 8

RESULT 15
 US-10-375-992-84
 ; Sequence 84, Application US/10375992
 ; Publication No. US20030152578A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ruoslahti, Erkki
 ; Pasqualini, Renata
 ; TITLE OF INVENTION: Tumor Homing Molecules, Conjugates
 ; Derived Therefrom, and Methods of Using Same
 ; NUMBER OF SEQUENCES: 199
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Campbell & Flores
 ; STREET: 4370 La Jolla Village Drive, Suite 700
 ; CITY: San Diego
 ; STATE: California
 ; COUNTRY: United States
 ; ZIP: 92122
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/10/375,992
 ; FILING DATE: 27-Feb-2003
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/926,914
 ; FILING DATE: 10-SEP-1997
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Campbell, Cathryn A.
 ; REGISTRATION NUMBER: 31,815
 ; REFERENCE/DOCKET NUMBER: P-LJ 2725
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (619) 535-9001
 ; TELEFAX: (619) 535-8949
 ; INFORMATION FOR SEQ ID NO: 84:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 9 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: both
 ; MOLECULE TYPE: peptide
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 84:
 US-10-375-992-84

Query Match 50.0%; Score 20; DB 14; Length 9;
 Best Local Similarity 50.0%; Pred. No. 1.2e+06;
 Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 3 MIQGGD 8
 |::||
 Db 3 MVRDGD 8

Search completed: October 21, 2004, 07:33:42
 Job time : 62.75 secs

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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:12:54 ; Search time 15.75 Seconds
(without alignments)
54.981 Million cell updates/sec

Title: US-09-720-469A-38
Perfect score: 40
Sequence: 1 DXMIQGGDX 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 1582

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR_79.*
1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	20	50.0	12	2 S43170	kinesin light chain
2	19	47.5	11	2 B60769	Ig H2 chain - Paci
3	18	45.0	7	2 PT0542	T-cell receptor be
4	18	45.0	9	2 QDRB	delta sleep-induci
5	18	45.0	11	2 PH1343	Ig heavy chain DJ
6	18	45.0	11	2 S60354	retinal oxidase -
7	18	45.0	11	2 PN0044	protein kinase C i
8	18	45.0	11	2 PT0218	T-cell receptor be
9	18	45.0	11	2 I41946	T-cell receptor ga
10	18	45.0	11	2 A61575	Trimeresurus serin
11	17	42.5	3	3 A23751	spinal cord peptid
12	17	42.5	9	1 YFPG	thymic factor - pi
13	17	42.5	9	2 A60957	thymocyte growth p
14	17	42.5	11	2 S57575	T cell receptor V-
15	17	42.5	11	2 D37196	bradykinin-potenti
16	17	42.5	11	4 S19015	hypothetical prote
17	17	42.5	12	2 PH1458	T-cell receptor be
18	16	40.0	12	2 A61309	glycoprotein hormo
19	16	40.0	12	2 S65730	hemoglobin, extrac
20	16	40.0	12	2 T46794	hypothetical prote
21	15	37.5	4	2 S47552	ubiquitin - rat
22	15	37.5	4	2 S09478	globulin IV alpha
23	15	37.5	7	2 S58797	serine/threonine-s
24	15	37.5	7	4 A15597	orf 4 rara 5'-regi
25	15	37.5	8	2 A31570	angiotensin-conver
26	15	37.5	9	2 I50633	c-rel protein - ch
27	15	37.5	10	2 PC2172	triacylglycerol li
28	15	37.5	10	2 PT0309	Ig heavy chain CRD
29	15	37.5	10	2 B56899	serum heterodimer,

30	15	37.5	11	2 A38590	transforming prote
31	15	37.5	12	2 S26544	T-cell receptor be
32	15	37.5	12	2 PA0030	protein QA300025 -
33	15	37.5	12	2 E44787	calliMIRFamide 1 -
34	15	37.5	12	2 A53252	pollen major aller
35	14	35.0	5	2 B61168	cocoonase (EC 3.4.
36	14	35.0	5	2 I50385	myosin light chain
37	14	35.0	7	2 E61491	seed protein ws-5
38	14	35.0	7	2 PT0667	T-cell receptor be
39	14	35.0	7	2 PT0586	T-cell receptor be
40	14	35.0	7	2 T09512	NADH2 dehydrogenas
41	14	35.0	8	2 C39690	neural cell adhesi
42	14	35.0	9	2 S66608	quinoline 2-oxidor
43	14	35.0	9	2 A53797	3',5'-cyclic-GMP p
44	14	35.0	9	2 A57444	neuropeptide Grb-A
45	14	35.0	9	2 B57444	neuropeptide Grb-A

ALIGNMENTS

RESULT 1

S43170
kinesin light chain - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 13-Jan-1995 #sequence_revision 18-Aug-2000 #text_change 09-Jul-2004
C;Accession: S43170
R;Chernajovsky, Y.; Brown, A.; Jones, T.A.; Sheer, D.
submitted to the EMBL Data Library, December 1992
A;Description: Promoter first exon/intron characterization and chromosomal location of th
A;Reference number: S43170
A;Accession: S43170
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-12 <CHE>
A;Cross-references: UNIPROT:Q13865; EMBL:X69658; NID:G468786; PIDN:CAA49349.1; PID:G468786

Query Match 50.0%; Score 20; DB 2; Length 12;
Best Local Similarity 60.0%; Pred. No. 3.8e+02;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 MIQGG 7
DB 1 MLRGG 5

RESULT 2

B60769
Ig H2 chain - Pacific hagfish (fragment)
C;Species: Eptatretus stouti (Pacific hagfish)
C;Date: 03-Jun-1993 #sequence_revision 03-Jun-1993 #text_change 03-Jun-1993
C;Accession: B60769
R;Hanley, P.J.; Seppelt, I.M.; Gooley, A.A.; Hook, J.W.; Raison, R.L.
J. Immunol. 145, 3823-3828, 1990
A;Title: Distinct Ig H chains in a primitive vertebrate, Eptatretus stouti.
A;Reference number: A60769; MUID:91060965; PMID:2123225
A;Accession: B60769
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-11 <HAN>

Query Match 47.5%; Score 19; DB 2; Length 11;
Best Local Similarity 80.0%; Pred. No. 5.6e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DXMIQ 5
DB 5 DFMIQ 9

RESULT 3

PT0542
T-cell receptor beta chain V-D-J region (126-1BA) - mouse (fragment)

C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PT0542
R;Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A;Reference number: PT0509; MUID:91277601; PMID:1711558
A;Accession: PT0542
A;Status: translation not shown
A;Molecule type: mRNA
A;Residues: 1-7 <FEE>
A;Experimental source: day 18 fetal thymus, strain BALB/c
C;Keywords: T-cell receptor

Query Match 45.0%; Score 18; DB 2; Length 7;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGD 8
|||
Db 3 GGD 5

RESULT 4

QDRB
delta sleep-inducing peptide - rabbit
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 20-Jun-2000 #sequence_revision 20-Jun-2000 #text_change 16-Aug-2004
C;Accession: A01422
R;Monnier, M.; Dudler, L.; Gachter, R.; Maier, P.F.; Tobler, H.J.; Schoenenberger, G.A.
Experientia 33, 548-552, 1977
A;Title: The delta sleep inducing peptide (DSIP). Comparative properties of the original
A;Reference number: A01422; MUID:77185324; PMID:862769
A;Accession: A01422
A;Molecule type: protein
A;Residues: 1-9 <MON>
A;Cross-references: UNIPROT:P01158
C;Comment: This peptide was obtained from dialysates of occipital venous sinus blood from
of recipient rabbits, it induces spindle and delta EEG activity and reduced motor activity

Query Match 45.0%; Score 18; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGD 8
|||
Db 3 GGD 5

RESULT 5

PHI343
Ig heavy chain DJ region (clone C100-91) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
C;Accession: PHI343
R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.
J. Exp. Med. 176, 1577-1581, 1992
A;Title: Predominance of fetal type DJH joining in young children with B precursor lymphoma
A;Reference number: PHI302; MUID:93094761; PMID:1460419
A;Accession: PHI343
A;Molecule type: DNA
A;Residues: 1-11 <WAS>
C;Keywords: heterotetramer; immunoglobulin

Query Match 45.0%; Score 18; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 9.2e+02;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGD 8
|||
Db 1 GGD 3

RESULT 6

S60354
retinal oxidase - rabbit (fragment)
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 24-Aug-1996 #sequence_revision 13-Mar-1997 #text_change 13-Mar-1997
C;Accession: S60354
R;Huang, D.Y.; Ichikawa, Y.
Biochim. Biophys. Acta 1243, 431-436, 1995
A;Title: Identification of essential lysyl and cysteinyl residues, and the amino acid sequence of the retinal oxidase from rabbit
A;Reference number: S60354; MUID:95244596; PMID:7727518
A;Accession: S60354
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-11 <HUA>

Query Match 45.0%; Score 18; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 9.2e+02;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGD 8
|||
Db 1 GGD 3

RESULT 7

PN0044
protein kinase C inhibitor I - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 29-Oct-1997 #sequence_revision 29-Oct-1997 #text_change 23-Jan-1998
C;Accession: PN0044
R;Kato, H.
Kawasaki Igakkaishi 22, 245-259, 1996
A;Title: Analysis of proteins isolated by two dimensional electrophoresis of mouse neuroblastoma cell
A;Reference number: PN0041
A;Accession: PN0044
A;Molecule type: protein
A;Residues: 1-11 <KAT>
A;Experimental source: neuroblastoma cell
C;Comment: The molecular mass is 13,900 and the pI is 6.36. The amino-terminus is blocked
C;Keywords: brain

Query Match 45.0%; Score 18; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 9.2e+02;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGD 8
|||
Db 8 GGD 10

RESULT 8

PT0218
T-cell receptor beta chain V-J region (7-10-D.3) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 31-Dec-1991 #sequence_revision 31-Dec-1991 #text_change 30-May-1997
C;Accession: PT0218
R;Nakano, N.; Kikutani, H.; Nishimoto, H.; Kishimoto, T.
J. Exp. Med. 173, 1091-1097, 1991
A;Title: T cell receptor V gene usage of islet beta cell-reactive T cells is not restricted
A;Reference number: PT0209; MUID:91217621; PMID:1902501
A;Accession: PT0218
A;Molecule type: mRNA
A;Residues: 1-11 <NAK>
C;Keywords: T-cell receptor

Query Match 45.0%; Score 18; DB 2; Length 11;
Best Local Similarity 75.0%; Pred. No. 9.2e+02;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 5 QGGD 8
|||
Db 5 QGGN 8

RESULT 9

I41946
T-cell receptor gamma chain (5t.1) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C>Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-May-1999
C:Accession: I41946
R:Whetsell, M.; Mosley, R.L.; Whetsell, L.; Schaefer, F.V.; Miller, K.S.; Klein, J.R.
Mol. Cell. Biol. 11, 5902-5909, 1991
A:Title: Rearrangement and junctional-site sequence analyses of T-cell receptor gamma gene
A:Reference number: A41946; MUID:92049316; PMID:1658619
A:Accession: I41946
A>Status: preliminary; not compared with conceptual translation
A:Molecule type: DNA
A:Residues: 1-11 <WHE>
C:Keywords: T-cell receptor

Query Match 45.0%; Score 18; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 9.2e+02;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGD 8
|||
Db 5 GGD 7

RESULT 10

A61575
Trimeresurus serine proteinase (EC 3.4.21.-) - Sakishima habu (fragment)
N:Alternate names: hemorrhagic toxin
C:Species: Trimeresurus elegans (Sakishima habu)
C>Date: 20-Oct-1994 #sequence_revision 06-Jan-1995 #text_change 06-Jan-1995
C:Accession: A61575
R:Nikai, T.; Komori, Y.; Imai, K.; Sugihara, H.
Int. J. Biochem. 23, 73-78, 1991
A:Title: Isolation and characterization of hemorrhagic toxin from the venom of Trimeresurus
A:Reference number: A61575; MUID:91216327; PMID:2022298
A:Accession: A61575
A:Molecule type: protein
A:Residues: 1-11 <NIK>
C:Keywords: hydrolase; serine proteinase; venom

Query Match 45.0%; Score 18; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 9.2e+02;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGD 8
|||
Db 3 GGD 5

RESULT 11

A23751
spinal cord peptide SCP-4 - pig
C:Species: Sus scrofa domestica (domestic pig)
C>Date: 15-Jun-2001 #sequence_revision 15-Jun-2001 #text_change 15-Mar-2004
C:Accession: A23751
R:Hsi, K.L.; Chen, R.L.; Chen, Z.G.; Zhang, H.L.; Lu, Y.A.; Guo, S.Y.; Wu, S.X.; Tsou, K.
Arch. Biochem. Biophys. 240, 178-183, 1985
A:Reference number: A23751; MUID:85250425; PMID:4015098
A:Accession: A23751
A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-3 <HSI>

Query Match 42.5%; Score 17; DB 3; Length 3;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 QGG 7
|||
Db 1 QGG 3

RESULT 12

YFPG
thymic factor - pig
N:Alternate names: FTS (facteur thymique serique)
C:Species: Sus scrofa domestica (domestic pig)
C>Date: 13-Jul-1981 #sequence_revision 13-Jul-1981 #text_change 09-Jul-2004
C:Accession: A01523; A60983
R:Pleau, J.M.; Dardenne, M.; Blouquit, Y.; Bach, J.F.
J. Biol. Chem. 252, 8045-8047, 1977
A:Title: Structural study of circulating thymic factor: a peptide isolated from pig serum
A:Reference number: A01523; MUID:78026571; PMID:914862
A:Accession: A01523
A:Molecule type: protein
A:Residues: 1-9 <PLE>
A:Cross-references: UNIPROT:P01255
R:Bach, J.F.; Dardenne, M.; Pleau, J.M.; Rosa, J.
Nature 266, 55-57, 1977
A:Title: Biochemical characterisation of a serum thymic factor.
A:Reference number: A60983; MUID:77123829; PMID:300146
A:Accession: A60983
A:Molecule type: protein
A:Residues: 'Z', 2-4, 'Z', 6-9 <BAC>
C:Comment: This peptide induces DNA synthesis in immature thymocytes, but not peripheral in a variety of immunoassays.
C:Comment: See PIR:A60957 (sheep) for discussion of another possible N-terminal modification
C:Superfamily: thymic factor
C:Keywords: pyroglutamic acid
F:1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

Query Match 42.5%; Score 17; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 QGG 7
|||
Db 5 QGG 7

RESULT 13

A60957
thymocyte growth peptide - sheep
N:Contains: FTS (facteur thymique serique)
C:Species: Ovis orientalis aries, Ovis ammon aries (domestic sheep)
C>Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004
C:Accession: A60957
R:Ernstroem, U.; Gafvelin, G.; Rudja, J.M.
Biosci. Rep. 10, 403-412, 1990
A:Title: Purification of thymocyte growth peptide (TGP) from sheep thymus. Relationship t
A:Reference number: A60957; MUID:91064427; PMID:2249004
A:Accession: A60957
A:Molecule type: protein
A:Residues: 1-9 <ERN>
A:Cross-references: UNIPROT:Q7M3C5
C:Comment: This peptide induces DNA synthesis in immature thymocytes, but not peripheral in a variety of immunoassays.
C:Comment: This peptide was isolated in two forms. One form contained the pyrrolidone carboxylic acid (Gln) #status experimental
C:Superfamily: thymic factor
F:1/Modified site: blocked amino end (Glx) (in thymocyte growth peptide) #status experimental

Query Match 42.5%; Score 17; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 QGG 7
|||
Db 5 QGG 7

RESULT 14

S57575
T cell receptor V-J junctional alpha chain region - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 19-Oct-1995 #sequence_revision 17-Nov-1995 #text_change 05-Nov-1999
C;Accession: S57575
R;Burrows, S.R.; Silins, S.L.; Moss, D.J.; Khanna, R.; Misko, I.S.; Arguet, V.P.
submitted to the EMBL Data Library, June 1995
A;Description: T cell receptor repertoire for a viral epitope in humans is diversified b
A;Reference number: S57494
A;Accession: S57575
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-11 <BUR>
A;Cross-references: EMBL:Z49953; NID:g887510; PIDN:CAA90224.1; PID:g887511
C;Keywords: T-cell receptor

Query Match 42.5%; Score 17; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 QGG 7
Db 4 QGG 6

RESULT 15
D37196
bradykinin-potentiating peptide 4 - island jararaca
C;Species: Bothrops insularis (island jararaca)
C;Date: 14-Feb-1992 #sequence_revision 01-Dec-1992 #text_change 09-Jul-2004
C;Accession: D37196
R;Cintra, A.C.O.; Vieira, C.A.; Giglio, J.R.
J. Protein Chem. 9, 221-227, 1990
A;Title: Primary structure and biological activity of bradykinin potentiating peptides f
A;Reference number: A37196; MUID:90351557; PMID:2386615
A;Accession: D37196
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-11 <CIN>
A;Cross-references: UNIPROT:P30424
C;Keywords: pyroglutamic acid
F1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

Query Match 42.5%; Score 17; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 QGG 7
Db 1 QGG 3

Search completed: October 21, 2004, 07:27:58
Job time : 16.75 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:05:04 ; Search time 86 Seconds
(without alignments)
60.214 Million cell updates/sec

Title: US-09-720-469A-38
Perfect score: 40
Sequence: 1 DXMIQGGDX 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1825181 seqs, 575374646 residues

Total number of hits satisfying chosen parameters: 4909

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt_02:*
1: uniprot_sprot:*
2: uniprot_trembl:*

pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	23	57.5	7	2	Q63480 rattus norv
2	22	55.0	12	2	Q9H3W2 homo sapien
3	21	52.5	12	2	Q70Y58 clinopodium
4	21	52.5	12	2	CAD45546 clinopodi
5	20	50.0	12	2	Q13865 homo sapien
6	19	47.5	7	2	O55184 rattus norv
7	19	47.5	11	2	Q70Y98 capitano
8	19	47.5	11	2	CAD45456 capitano
9	18	45.0	9	1	DSIP RABIT
10	18	45.0	9	2	Q6LDH6
11	18	45.0	9	2	AAA40600
12	18	45.0	10	2	Q51812
13	18	45.0	12	2	Q9H1Z6
14	18	45.0	12	2	Q9N2B8 pongo pygma
15	18	45.0	12	2	Q9N2B9 gorilla gor
16	18	45.0	12	2	Q9N2C0 pan troglod
17	18	45.0	12	2	O54226 saccharopol
18	17	42.5	7	1	ASCL ALLAS
19	17	42.5	9	1	THYF PIG
20	17	42.5	9	2	Q7M3C5
21	17	42.5	10	2	Q6LCI4
22	17	42.5	10	2	Q96QA7
23	17	42.5	10	2	AAD14854
24	17	42.5	11	1	BPP4 BOTIN
25	17	42.5	11	2	Q70Y64
26	17	42.5	11	2	Q47420
27	17	42.5	11	2	CAD45529
28	16	40.0	10	1	ESTA SCHGA
29	16	40.0	10	2	Q8UVW2
30	16	40.0	12	2	Q7M0A7
31	16	40.0	12	2	Q8UVV8

32	16	40.0	12	2	Q8UVW0	Q8uvw0 rana catesb
33	15	37.5	8	1	ACI THUAL	P18691 thunnus alb
34	15	37.5	8	2	Q9P0K3	Q9p0k3 homo sapien
35	15	37.5	9	2	Q9BQT4	Q9bqt4 homo sapien
36	15	37.5	9	2	Q6YF34	Q6yff34 rattus norv
37	15	37.5	9	2	Q92009	Q92009 gallus gall
38	15	37.5	9	2	AAN87279	Aan87279 rattus no
39	15	37.5	10	2	Q6X2S9	Q6x2s9 homo sapien
40	15	37.5	10	2	Q85V66	Q85v66 eucalyptus
41	15	37.5	10	2	Q7LZJ7	Q7lzz7 carcharhinu
42	15	37.5	10	2	Q7ZZJ2	Q7zzj2 motacilla f
43	15	37.5	10	2	AAP83315	Aap83315 homo sapi
44	15	37.5	11	2	Q7ZZI6	Q7zzi6 motacilla f
45	15	37.5	11	2	Q7ZZI9	Q7zzi9 motacilla f

ALIGNMENTS

RESULT 1
Q63480
ID Q63480 PRELIMINARY; PRT; 7 AA.
AC Q63480;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE TR4-NS orphan receptor (Fragment).
GN Name=TR4;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=96198747; PubMed=8612486;
RA Yoshikawa T., Makino S., Gao X.M., Xing G.Q., Chuang D.M.,
RA Detera-Wadleigh S.D.;
RT "Splice variants of rat TR4 orphan receptor: differential expression
of novel sequences in the 5'-untranslated region and C-terminal
domain.";
RL Endocrinology 137:1562-1571(1996).
DR EMBL; U59125; AAB02827.1; -.
DR GO; GO:0004872; Fireceptor activity; IEA.
KW Receptor.
FT NON TER 1
SQ SEQUENCE 7 AA; 758 MW; 672AA87864005350 CRC64;

Query Match 57.5%; Score 23; DB 2; Length 7;
Best Local Similarity 80.0%; Pred. No. 1.8e+06;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 IQGGD 8
Db 2 IRGGD 6

RESULT 2
Q9H3W2
ID Q9H3W2 PRELIMINARY; PRT; 12 AA.
AC Q9H3W2;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE TRE17 protein.
GN Name=TRE17 gene;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=94010310; PubMed=8406013;
RA Onno M., Nakamura T., Hillova J., Hill M.;


```
RT "Identification of novel sequences in the repertoire of hypervariable
RT TRE17 genes from immortalized nonmalignant and malignant human
RT keratinocytes.";
RL Gene 131:209-215(1993).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=93228825; PubMed=8471161;
RA Onno M., Nakamura T., Mariage-Samson R., Hillova J., Hill M.;
RT "Human TRE17 oncogene is generated from a family of homologous
RT polymorphic sequences by single-base changes.";
RL DNA Cell Biol. 12:107-118(1993).
RN [3]
RP SEQUENCE FROM N.A.
RA Hillova F.;
RL Submitted (APR-1993) to the EMBL/GenBank/DBJ databases.
DR EMBL; X71371; CAC16150.1; -.
SQ SEQUENCE 12 AA; 1252 MW; 6E17AFDE83ADD87B CRC64;

Query Match 55.0%; Score 22; DB 2; Length 12;
Best Local Similarity 50.0%; Pred. No. 1.3e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 3 MIQGG 8
Db 3 MVEGAD 8

RESULT 3
Q70Y58 PRELIMINARY; PRT; 12 AA.
AC Q70Y58;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Ribosomal protein (Fragment).
GN Name=rps16;
OS Clinopodium vulgare subsp. arundanum.
OG Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
OC Lamiales; Lamiaceae; Nepetoideae; Nepeteae; Clinopodium.
OC NCBI_TaxID=204223;
DR EMBL; AJ505426; CAD45546.1; -.
GO; GO:0003735; F:structural constituent of ribosome; IEA.
KW Ribosomal protein.
FT NON_TER 1
FT NON_TER 12
FT NON_TER 12
SQ SEQUENCE 12 AA; 1353 MW; D43D1B51AF587866 CRC64;

Query Match 52.5%; Score 21; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 IQGG 7
Db 4 IQGG 7

RESULT 4
CAD45546 PRELIMINARY; PRT; 12 AA.
ID CAD45546;
AC CAD45546;
DT 14-MAR-2004 (TrEMBLrel. 27, Created)
DT 14-MAR-2004 (TrEMBLrel. 27, Last sequence update)
DT 14-MAR-2004 (TrEMBLrel. 27, Last annotation update)
DE Orphan receptor TR4-NS (Fragment).
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DE Ribosomal protein (Fragment).
GN RPS16.
OS Clinopodium vulgare subsp. arundanum.
OG Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
OC Lamiales; Lamiaceae; Nepetoideae; Nepeteae; Clinopodium.
OC Clinopodium vulgare.
OX NCBI_TaxID=204223;
RN [1]
RP SEQUENCE FROM N.A.
RA Paton A., Springate D.A., Sudde S., Otieno D., Grayer R., Harley M.M.,
RA Willis F., Simonds M.S.J., Powell M.P., Savolainen V.;
RT "Phylogeny and evolution of basils and allies (Ocimeae, Labiatae)
RT based on three plastid DNA regions.";
RL Mol. Phylogenet. Evol. 31:277-299(2004).
DR EMBL; AJ505426; CAD45546.1; -.
KW Chloroplast; Ribosomal protein.
FT NON_TER 1
FT NON_TER 12
FT NON_TER 12
SQ SEQUENCE 12 AA; 1353 MW; D43D1B51AF587866 CRC64;

Query Match 52.5%; Score 21; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 IQGG 7
Db 4 IQGG 7

RESULT 5
Q13865 PRELIMINARY; PRT; 12 AA.
ID Q13865;
AC Q13865;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Kinesin light chain.
GN Name=beta-kinesin;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OC NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15019625;
RA Paton A., Springate D.A., Sudde S., Otieno D., Grayer R., Harley M.M.,
RA Willis F., Simonds M.S.J., Powell M.P., Savolainen V.;
RT "Phylogeny and evolution of basils and allies (Ocimeae, Labiatae)
RT based on three plastid DNA regions.";
RL Mol. Phylogenet. Evol. 31:277-299(2004).
DR EMBL; AJ505426; CAD45546.1; -.
GO; GO:0003735; F:structural constituent of ribosome; IEA.
KW Ribosomal protein.
FT NON_TER 1
FT NON_TER 12
FT NON_TER 12
SQ SEQUENCE 12 AA; 1274 MW; 3FB8D34EE165A5B8 CRC64;

Query Match 50.0%; Score 20; DB 2; Length 12;
Best Local Similarity 60.0%; Pred. No. 3.5e+03;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 MIQGG 7
Db 1 MLRGG 5

RESULT 6
O55184 PRELIMINARY; PRT; 7 AA.
ID O55184;
AC O55184;
DT 01-JUN-1998 (TrEMBLrel. 06, Created)
DT 01-JUN-1998 (TrEMBLrel. 06, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Orphan receptor TR4-NS (Fragment).
```


RL Peptides 7:1165-1187(1986).
CC -!- FUNCTION: When infused into the mesodiencephalic ventricle of
CC recipient rabbits induces spindle and delta EEG activity and
CC reduced motor activities.
CC -!- MISCELLANEOUS: This peptide was obtained from dialysates of
CC occipital venous sinus blood from rabbits kept asleep by electric
CC stimulation of the thalamus.
CC -!- DATABASE: NAME=Protein Spotlight; NOTE=Issue 8 of March 2001;
CC WWW="http://www.expasy.org/spotlight/articles/sptlt008.html".
DR PIR; A01422; QDRB.
KW Direct protein sequencing.
SQ SEQUENCE 9 AA; 849 MW; DDD365BDDAA8787D CRC64;

Query Match 45.0%; Score 18; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 GGD 8
Db 3 GGD 5

RESULT 10
Q6LDH6 PRELIMINARY; PRT; 9 AA.
ID Q6LDH6;
AC Q6LDH6;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE 11-beta-hydroxysteroid dehydrogenase (EC 1.1.1.146) (Fragment).
GN Name=11-HSDIB;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Sprague-Dawley;
RX MEDLINE=92129344; PubMed=1733955;
RA Krozowski Z., Obeyesekere V., Smith R., Mercer W.;
RT "Tissue-specific expression of an 11-beta-hydroxysteroid dehydrogenase
RT with a truncated N-terminal domain: A potential mechanism for
RT differential intracellular localization within mineralocorticoid
RT target cells.";
RL J. Biol. Chem. 267:2569-2574(1992).
DR EMBL; M77835; AAA40600.1; -.
DR GO; GO:0003845; F:11-beta-hydroxysteroid dehydrogenase activity; IEA.
DR GO; GO:0016491; F:oxidoreductase activity; IEA.
KW Oxidoreductase.
FT NON TER 1
SQ SEQUENCE 9 AA; 1015 MW; 41F942C3333866D7 CRC64;

Query Match 45.0%; Score 18; DB 2; Length 9;
Best Local Similarity 75.0%; Pred. No. 1.8e+06;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 MIQG 6
Db 1 MLQG 4

RESULT 11
AAA40600 PRELIMINARY; PRT; 9 AA.
ID AAA40600;
AC AAA40600;
DT 02-MAR-2004 (TrEMBLrel. 27, Created)
DT 02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
DT 02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
DE 11-beta-hydroxysteroid dehydrogenase (EC 1.1.1.146) (Fragment).
GN 11-HSDIB.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.

OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Sprague-Dawley;
RX MEDLINE=92129344; PubMed=1733955;
RA Krozowski Z., Obeyesekere V., Smith R., Mercer W.;
RT "Tissue-specific expression of an 11-beta-hydroxysteroid dehydrogenase
RT with a truncated N-terminal domain: A potential mechanism for
RT differential intracellular localization within mineralocorticoid
RT target cells.";
RL J. Biol. Chem. 267:2569-2574(1992).
DR EMBL; M77835; AAA40600.1; -.
FT NON TER 9
SQ SEQUENCE 9 AA; 1015 MW; 41F942C3333866D7 CRC64;

Query Match 45.0%; Score 18; DB 2; Length 9;
Best Local Similarity 75.0%; Pred. No. 1.8e+06;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 MIQG 6
Db 1 MLQG 4

RESULT 12
Q51812 PRELIMINARY; PRT; 10 AA.
ID Q51812;
AC Q51812;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE DNA helicase (Fragment).
GN Name=tral;
OS Plasmid F.
OG Plasmid F.
OC plasmids.
OX NCBI_TaxID=2465;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=92009201; PubMed=1916281;
RA Cram D.S., Loh S.M., Cheah K.C., Skurray R.A.;
RT "Sequence and conservation of genes at the distal end of the transfer
RT region on plasmids F and R6-5.";
RL Gene 104:85-90(1991).
DR EMBL; M38047; AAA98090.1; -.
DR GO; GO:0004386; F:helicase activity; IEA.
KW Helicase; Plasmid.
FT NON TER 1
SQ SEQUENCE 10 AA; 1088 MW; 59A3047731A33B13 CRC64;

Query Match 45.0%; Score 18; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 7.7e+03;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 GGD 8
Db 8 GGD 10

RESULT 13
Q9H1Z6 PRELIMINARY; PRT; 12 AA.
ID Q9H1Z6;
AC Q9H1Z6;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Estrogen receptor 1 (Fragment).
GN Name=ESR1;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]

RP SEQUENCE FROM N.A.
RA Gonzalez-Gomez F., Vergara F., Pedrosa C., Ramirez J.P.,
RA Castilla J.A., Yoldi A., Ruiz A., Real L.M.;
RL Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF326912; AAG42501.1; -;
DR GO; GO:0004872; F:receptor activity; IEA.

KW Receptor.
FT NON_TER 1 1
FT NON_TER 12 12
SQ SEQUENCE 12 AA; 1385 MW; 09168BCB76C41404 CRC64;
Query Match 45.0%; Score 18; DB 2; Length 12;
Best Local Similarity 57.1%; Pred. No. 9.2e+03;
Matches 4; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DXMIQGG 7
Db 4 DNRQGG 10

RESULT 14

Q9N2B8 PRELIMINARY; PRT; 12 AA.
AC Q9N2B8;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Indolethylamine N-methyltransferase (Fragment).
GN Name=INMT;
OS Pongo pygmaeus (Orangutan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pongo.
OX NCBI_TaxID=9600;
RN [1]
RP SEQUENCE FROM N.A.
RA Kitano T., Kobayakawa H., Saitou N.;
RL Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB041365; BAA94454.1; -;
DR GO; GO:0008168; F:methyltransferase activity; IEA.
DR GO; GO:0016740; F:transferase activity; IEA.
KW Methyltransferase; Transferase.
FT NON_TER 12 12
SQ SEQUENCE 12 AA; 1290 MW; CF079554917861A9 CRC64;

Query Match 45.0%; Score 18; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 9.2e+03;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGD 8
Db 7 GGD 9

RESULT 15

Q9N2B9 PRELIMINARY; PRT; 12 AA.
AC Q9N2B9;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Indolethylamine N-methyltransferase (Fragment).
GN Name=INMT;
OS Gorilla gorilla (gorilla).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Gorilla.
OX NCBI_TaxID=9593;
RN [1]
RP SEQUENCE FROM N.A.
RA Kitano T., Kobayakawa H., Saitou N.;
RL Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB041364; BAA94453.1; -;
DR GO; GO:0008168; F:methyltransferase activity; IEA.
DR GO; GO:0016740; F:transferase activity; IEA.

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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:04:19 ; Search time 83 Seconds
(without alignments)
38.898 Million cell updates/sec

Title: US-09-720-469A-39
Perfect score: 50
Sequence: 1 KYHRVIKDF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2002273 seqs, 358729299 residues

Total number of hits satisfying chosen parameters: 497672

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_23Sep04:.*
1: geneseqp1980s:.*
2: geneseqp1990s:.*
3: geneseqp2000s:.*
4: geneseqp2001s:.*
5: geneseqp2002s:.*
6: geneseqp2003as:.*
7: geneseqp2003bs:.*
8: geneseqp2004s:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	50	100.0	9	3 AAY69962	Aay69962 Human cyc
2	50	100.0	9	4 AAB46946	Aab46946 Human cyc
3	46	92.0	9	3 AAY69921	Aay69921 Human cyc
4	46	92.0	9	4 AAB46930	Aab46930 Human cyc
5	46	92.0	9	4 AAG68088	Aag68088 Antitumou
6	46	92.0	9	5 ABG79075	Abg79075 Human Cyp
7	46	92.0	9	6 ABR84373	Abr84373 Human Cyp
8	46	92.0	9	7 ADC17701	Adc17701 Cyclophil
9	46	92.0	9	8 ADG89641	Adg89641 Class I H
10	36	72.0	9	3 AAY69960	Aay69960 Human cyc
11	31	62.0	10	2 AAR96521	Aar96521 Hepatitis
12	31	62.0	11	4 AAB82292	Aab82292 Phosphory
13	29	58.0	9	3 AAY69959	Aay69959 Human cyc
14	29	58.0	11	3 AAY69924	Aay69924 Human cyc
15	28	56.0	9	5 ABG94771	Abg94771 Replikin
16	28	56.0	9	5 ABG94772	Abg94772 Replikin
17	28	56.0	9	6 ABU57321	Abu57321 Replikin
18	28	56.0	9	6 ABU57322	Abu57322 Replikin
19	28	56.0	9	7 ADD88394	Add88394 Tumour vi
20	28	56.0	9	7 ADD88395	Add88395 Tumour vi
21	28	56.0	9	7 ADG18172	Adg18172 Tumour vi
22	28	56.0	9	7 ADG18173	Adg18173 Tumour vi
23	28	56.0	12	8 ADI46367	Adi46367 Permeabil
24	27	54.0	9	5 AAU71498	Aau71498 Human MHC
25	27	54.0	9	5 AAU71218	Aau71218 Human MHC

26	27	54.0	10	5 AAU71556	Aau71556 Human MHC
27	27	54.0	10	5 AAU71745	Aau71745 Human MHC
28	27	54.0	10	8 ADM41409	Adm41409 Human bet
29	27	54.0	12	2 AAW92359	Aaw92359 CYP2B1 im
30	26	52.0	11	2 AAR48203	Aar48203 Human pho
31	26	52.0	11	4 AAB82291	Aab82291 Phosphory
32	26	52.0	11	4 AAB82294	Aab82294 Phosphory
33	26	52.0	12	1 AAP93365	Aap93365 Amino aci
34	25.5	51.0	9	4 ABP11571	Abp11571 HIV A01 s
35	25.5	51.0	9	4 ABP15315	Abp15315 HIV A24 s
36	25.5	51.0	10	4 ABP20150	Abp20150 HIV A03 m
37	25.5	51.0	10	4 ABP15417	Abp15417 HIV A24 s
38	25.5	51.0	11	4 ABP11625	Abp11625 HIV A01 s
39	25.5	51.0	11	4 ABP15505	Abp15505 HIV A24 s
40	25.5	51.0	11	4 ABP20151	Abp20151 HIV A03 m
41	25.5	51.0	11	4 ABP17665	Abp17665 HIV B58 s
42	25.5	51.0	11	4 ABP15503	Abp15503 HIV A24 s
43	25	50.0	7	7 ADB79463	Adb79463 Parapoxvi
44	25	50.0	7	8 ADP74879	Adp74879 Parapoxvi
45	25	50.0	9	6 ABR11047	Abr11047 Human can

ALIGNMENTS

RESULT 1
AAY69962
ID AAY69962 standard; peptide; 9 AA.
XX
AC AAY69962;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #42.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
PN WO9967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP003360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
PI Itoh K, Gomi S;
XX
DR WPI; 2000-116932/10.
XX
PT Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 10; Page 60; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;

Query Match 100.0%; Score 50; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 KYHRVIKDF 9
|||||

Db 1 KYHRVIKDF 9

RESULT 2
AAB46946

ID AAB46946 standard; peptide; 9 AA.
XX
AC AAB46946;
XX
DT 04-MAY-2001 (first entry)
XX
DE Human cyclophilin B derived tumor antigenic peptide SEQ ID 32.
XX
KW Tumor antigenic peptide; interferon; IFN; antigen-specific T cell;
KW virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell;
KW viral infectious disease; cyclophilin B; human.
XX
OS Homo sapiens.
XX
PN EP1074267-A1.
XX
PD 07-FEB-2001.
XX
PF 24-JUL-2000; 2000EP-00306263.
XX
PR 22-JUL-1999; 99JP-00207687.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
XX
PI Takasu H, Gotoh M, Yamaoka T;
XX
DR WPI; 2001-193144/20.
XX
PT Use of antigenic proteins, peptides, interferon or their encoding DNA, in
PT the manufacture of an agent for the induction of antigen-specific T
PT cells.
XX
PS Disclosure; Page 19; 25pp; English.
XX
CC This invention describes the novel use of interferons (IFNs) or DNAs
CC capable of expressing the interferons and/or antigenic proteins (AP),
CC antigenic peptides derived from the proteins or DNAs capable of
CC expressing the antigenic proteins or peptides, in the manufacture of an
CC agent for induction of antigen-specific T cells. The products of the
CC invention have virucide and cytostatic activity and can be used for gene
CC therapy or as inducers of antigen-specific T cells. The action of
CC interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic
CC T cell (CTL) by administering an antigenic peptide in an incomplete
CC Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or
CC DNA encoding IFNs) are useful in the manufacture of a medicament for
CC inducing antigen-specific T cells in an individual who has been
CC administered with AP (or DNA encoding AP) or vice versa. The medicament
CC is useful for the treatment or prophylaxis of a tumor or a viral
CC infectious disease
XX
SQ Sequence 9 AA;

Query Match 100.0%; Score 50; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHRVIKDF 9
Db 1 KYHRVIKDF 9

RESULT 3
AAY69921

ID AAY69921 standard; peptide; 9 AA.
XX
AC AAY69921;
XX
DT 11-APR-2000 (first entry)

XX Human cyclophilin B peptide fragment #1.
DE
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
PN WO9967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP003360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX
PI Itoh K, Gomi S;
XX
DR WPI; 2000-116932/10.
XX
PT Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 4; Page 49; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;

Query Match 92.0%; Score 46; DB 3; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHRVIKDF 9
Db 1 KYHRVIKDF 9

RESULT 4
AAB46930

ID AAB46930 standard; peptide; 9 AA.
XX
AC AAB46930;
XX
DT 04-MAY-2001 (first entry)
XX
DE Human cyclophilin B derived tumor antigenic peptide SEQ ID 16.
XX
KW Tumor antigenic peptide; interferon; IFN; antigen-specific T cell;
KW virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell;
KW viral infectious disease; cyclophilin B; human.
XX
OS Homo sapiens.
XX
PN EP1074267-A1.
XX
PD 07-FEB-2001.
XX
PF 24-JUL-2000; 2000EP-00306263.
XX
PR 22-JUL-1999; 99JP-00207687.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
XX
PI Takasu H, Gotoh M, Yamaoka T;
XX
DR WPI; 2001-193144/20.

XX Use of antigenic proteins, peptides, interferon or their encoding DNA, in
PT the manufacture of an agent for the induction of antigen-specific T
PT cells.
XX
PS Disclosure; Page 15; 25pp; English.
XX
CC This invention describes the novel use of interferons (IFNs) or DNAs
CC capable of expressing the interferons and/or antigenic proteins (AP),
CC antigenic peptides derived from the proteins or DNAs capable of
CC expressing the antigenic proteins or peptides, in the manufacture of an
CC agent for induction of antigen-specific T cells. The products of the
CC invention have virucide and cytostatic activity and can be used for gene
CC therapy or as inducers of antigen-specific T cells. The action of
CC interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic
CC T cell (CTL) by administering an antigenic peptide in an incomplete
CC Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or
CC DNA encoding IFNs) are useful in the manufacture of a medicament for
CC inducing antigen-specific T cells in an individual who has been
CC administered with AP (or DNA encoding AP) or vice versa. The medicament
CC is useful for the treatment or prophylaxis of a tumor or a viral
CC infectious disease

XX Sequence 9 AA;

Query Match 92.0%; Score 46; DB 4; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHRVIKDF 9
|:|||||
Db 1 KFHRIKDF 9

RESULT 5

AAG68088
ID AAG68088 standard; peptide; 9 AA.

XX AAG68088;

DT 17-DEC-2001 (first entry)

DE Antitumor peptide cyclophilin B 84-92.

XX Antitumor; cancer; cancer cell recognition; antigenic; CTL; lck; src;
KW tumour specific cytotoxic T lymphocyte; anticancer; SART-1; SART-3;
KW cyclophilin B gene; HLA-A2402.

XX Homo sapiens.

XX JP2001245675-A.

XX 11-SEP-2001.

XX 25-DEC-2000; 2000JP-00393047.

XX 28-DEC-1999; 99JP-00374322.

XX (ITOY/) ITO Y.

XX WPI; 2001-610076/70.

XX New peptides for recognizing cancer cells with tumor specific cytotoxic T
PT lymphocytes and for treating cancer.

XX Claim 8; Page 2; 14pp; Japanese.

XX The present invention describes peptides recognising cancer cells with
CC tumour specific cytotoxic T lymphocytes (CTL). The peptides recognising
CC cancer cells with tumour specific CTLs are selected from: (1) peptides of
CC sequences (AAG68066 to AAG68069); (2) peptides containing the above
CC mentioned sequences; (3) peptides having 70 % or more of homogeneity with
CC the above mentioned sequences; and (4) peptides with one or more deleted,

CC substituted, added or inserted amino acid(s) of the above mentioned
CC sequences, particularly those having recognising property due to HLA-
CC A2402 binding CTL, especially having at least 5 amino acids, used for
CC medicine, particularly anticancer agents, derived from antitumour
CC antigenic peptides of lck, src family, SART-1, SART-3 or cyclophilin B
CC genes. The antitumour peptides have cytostatic activities. The peptides
CC are used for the treatment of cancer. The peptides cause activation of
CC CTL in cancer patients. The present sequence represents a peptide from
CC the present invention

XX Sequence 9 AA;

Query Match 92.0%; Score 46; DB 4; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHRVIKDF 9
|:|||||
Db 1 KFHRIKDF 9

RESULT 6

ABG79075
ID ABG79075 standard; peptide; 9 AA.

XX ABG79075;

XX 15-NOV-2002 (first entry)

XX Human Cyp-B class I HLA widely expressed antigen peptide #1.

XX Cell penetrating peptide; cancer; tumour; melanoma; thymoma; antigen;
KW lymphoma; sarcoma; lung cancer; non-Hodgkin's lymphoma; leukaemia;
KW Hodgkin's lymphoma; uterine cancer; cervical cancer; bladder cancer;
KW kidney cancer; adenocarcinoma; breast cancer; prostate cancer;
KW ovarian cancer; pancreatic cancer; epitope; vaccine; dendritic cell;
KW tumour infiltrating lymphocyte; TIL; human leukocyte antigen; HLA;
KW cytostatic; human.

XX Homo sapiens.

XX WO200264057-A2.

XX 22-AUG-2002.

XX 15-FEB-2002; 2002WO-US005212.

XX 15-FEB-2001; 2001US-0268687P.

XX (BAYU) BAYLOR COLLEGE MEDICINE.

XX Wang R;

XX WPI; 2002-627577/67.

XX Novel composition for treating a disease in an animal, comprises an
PT immune effector cell and cell penetrating peptide associated with an
PT antigen or antibody.

XX Disclosure; Page 17; 61pp; English.

XX The invention relates to a composition (I) comprising an immune effector
CC cell and a cell penetrating peptide (CPP) associated with an antigen or
CC antibody. Also included are (1) a vaccine comprising (I), CPP associated
CC with an antigen, and a pharmaceutically acceptable carrier and (2)
CC preparing a composition for a disease, by providing (I) and CPP
CC associated with an antigen for disease, and introducing the antigen-
CC associated CPP to (I), where antigen enters into the cell. The antigens
CC are, for example, tumour antigen derived epitopes recognised by tumour
CC infiltrating lymphocytes (TIL) of HLA (human leukocyte antigen) class I
CC or II. The composition is useful for enhancing immunity in an animal to a
CC disease, by administering a mature dendritic cell comprising CPP
CC associated with an antigen to disease, to the animal, such that following

CC the administration, animal is protected from disease, where the animal
CC comprises both CD4+ and CD8+ T cells. It is also useful for treating a
CC disease (e.g. cancer, tumour, melanoma, thymoma, lymphoma, sarcoma, lung
CC cancer, non-Hodgkin's lymphoma, leukaemia, Hodgkin's lymphoma, uterine
CC cancer, cervical cancer, bladder cancer, kidney cancer, adenocarcinoma,
CC breast cancer, prostate cancer, ovarian cancer and pancreatic cancer).
CC The animal is further subjected to a cancer treatment including surgery,
CC radiation, chemotherapy or gene therapy. The administration of (I),
CC preferably dendritic cell is prior to, subsequent to or concurrent with,
CC the cancer treatment. The present sequence is a tumour antigen derived
CC epitope for inclusion in the composition of the invention
XX
SQ Sequence 9 AA;

Query Match 92.0%; Score 46; DB 5; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHRVIKDF 9
|:|||||
Db 1 KFHRVIKDF 9

RESULT 7
ABR84373
ID ABR84373 standard; peptide; 9 AA.
XX
AC ABR84373;
XX
DT 06-NOV-2003 (first entry)
XX
DE Human CypB HLA-A24 epitope, SEQ ID NO:23.
XX
KW Antigen specific T-cell; detection; diagnosis; cancer specific T-cell;
KW cancer; tumour; cervical cancer; prostate cancer; cellular immunity;
KW immune therapy; cytostatic; immunostimulant; vaccine; antigenic peptide;
KW human; human leukocyte antigen; HLA-A24 epitope.
XX
OS Homo sapiens.
XX
PN JP2002365286-A.
XX
PD 18-DEC-2002.
XX
PF 18-SEP-2001; 2001JP-00283413.
XX
PR 13-NOV-2000; 2000JP-00345094.
XX
PA (ITOY/) ITO Y.
XX
DR WPI; 2003-508315/48.
XX
PT A detection method of antigen specific T-cells, comprises the use of
PT plural antigenic peptides, useful in semi-quantitative determination of
PT cancer specific T-cell frequencies and for monitoring cellular immunity.
XX
PS Example 8; Page 10; 18pp; Japanese.
XX
CC The invention relates to a method for the detection of antigen specific T
CC -cells in a blood sample involving the use of a plurality of antigenic
CC peptides. The method comprises sampling of peripheral blood monocytes;
CC stimulation of the collected peripheral blood monocytes with antigens
CC without direct use of antigen presenting cells; and detection of T-cells
CC specific to the antigen in the stimulated monocytes. The method is
CC particularly used for the detection of cancer as it can be used in semi-
CC quantitative determination of cancer specific T-cells. It can also be
CC used for cancer vaccine therapy for patients with cervical or prostate
CC cancer. The method can additionally be used to monitor of cellular
CC immunity and cancer immune therapy by detection of specific T-cell
CC frequencies. Sequences ABR84367-ABR84380 represent HLA-A24 (human
CC leukocyte antigen) peptides of human origin used in an example from the
CC invention
XX

SQ Sequence 9 AA;

Query Match 92.0%; Score 46; DB 6; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHRVIKDF 9
|:|||||
Db 1 KFHRVIKDF 9

RESULT 8
ADC17701
ID ADC17701 standard; peptide; 9 AA.
XX
AC ADC17701;
XX
DT 18-DEC-2003 (first entry)
XX
DE Cyclophilin B protein amino acids 84-92.
XX
KW cytostatic; antiallergic; vaccine; allergic reaction suppressor; antigen;
KW allergy; epitope; cancer; immunoglobulin E antibody; desensitization;
KW cyclophilin B.
XX
OS Synthetic.
XX
PN WO2003020306-A1.
XX
PD 13-MAR-2003.
XX
PF 28-AUG-2002; 2002WO-JP008641.
XX
PR 29-AUG-2001; 2001JP-00260046.
XX
PA (ITOY/) ITOH K.
XX
PI Itoh K, Yamada A;
XX
DR WPI; 2003-300831/29.
XX
PT Desensitizers or allergic reaction suppressors containing peptides
PT originating from the same antigenic substances as reaction-inducing
PT substances, useful for preventing or treating type I allergic diseases
PT and in cancer vaccines.
XX
PS Claim 8; SEQ ID NO 1; 49pp; Japanese.
XX
CC The invention relates to allergic reaction suppressors, comprising a
CC peptide which originates from the same antigenic substance as the
CC antigenic substance inducing the (peptide-originated) allergic reaction,
CC and containing an epitope different from the epitope participating in the
CC induction of the allergic reaction and yet does not induce the allergic
CC reaction. The desensitizers or allergic reaction suppressors are useful
CC for treating and preventing type I allergic diseases and in cancer
CC vaccines for preventing or treating cancer. The allergic reaction
CC suppressors are also useful for suppressing an allergic reaction or
CC reducing immunoglobulin E antibody production, and for desensitization to
CC antigens. This sequence represents a peptide used in the invention and
CC corresponds to amino acids 84-92 of the cyclophilin B protein.
XX
SQ Sequence 9 AA;

Query Match 92.0%; Score 46; DB 7; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHRVIKDF 9
|:|||||
Db 1 KFHRVIKDF 9

RESULT 9

ADG89641
ID ADG89641 standard; peptide; 9 AA.
XX AC ADG89641;
XX DT 11-MAR-2004 (first entry)
XX DE Class I HLA-restricted widely expressed antigen #6.
XX KW metastatic cancer cell differentiation; mutated fibronectin;
XX KW metastatic cancer; class I HLA-restricted; widely antigen.
XX OS Unidentified.
XX PN WO2003100027-A2.
XX PD 04-DEC-2003.
XX PF 28-MAY-2003; 2003WO-US016736.
XX PR 28-MAY-2002; 2002US-0383530P.
XX PA (BAYU) BAYLOR COLLEGE MEDICINE.
XX PI Wang R;
XX DR WPI; 2004-035134/03.
XX PT Identifying a cell that differentiates into a metastatic cancer cell,
XX PT useful for preventing metastatic cancer, comprises identifying a mutated
XX PT fibronectin in the cell.
XX PS Disclosure; SEQ ID NO 84; 137pp; English.
XX CC The invention comprises a method for identifying a cell that will
XX CC differentiate into a metastatic cancer cell, the method involves
XX CC identifying a mutated fibronectin in the cell. The method of the
XX CC invention is useful for preventing metastatic cancer. The present amino
XX CC acid sequence represents a Class I HLA-restricted widely expressed
XX CC antigen.
XX SQ Sequence 9 AA;
Query Match 92.0%; Score 46; DB 8; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 KYHRVIKDF 9
Db :|||||
1 KFHRVIKDF 9
RESULT 10
ID AAY69960 standard; peptide; 9 AA.
XX AC AAY69960;
XX DT 11-APR-2000 (first entry)
XX DE Human cyclophilin B peptide fragment #40.
XX KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
XX KW HLA antigen; diagnosis; tumour; therapy.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT Misc-difference 2 /label= Phe, Tyr, Met, Trp
XX FT Misc-difference 9 /label= Phe, Leu, Ile, Trp, Met
XX

PN WO9967288-A1.
XX PD 29-DEC-1999.
XX PF 24-JUN-1999; 99WO-JP003360.
XX PR 25-JUN-1998; 98JP-00178449.
XX PA (SUMU) SUMITOMO PHARM CO LTD.
XX PA (ITOHI) ITOH K.
XX PI Itoh K, Gomi S;
XX DR WPI; 2000-116932/10.
XX PT Tumor antigen peptides derived from cyclophilin B for treatment and
XX PT diagnosis of tumors.
XX PS Claim 10; Page 59; 64pp; Japanese.
XX CC This sequence represents a cyclophilin B peptide of the invention. The
XX CC peptides are tumour antigen peptides derived from cyclophilin B, that
XX CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
XX CC peptides are used for the treatment and diagnosis of tumours
XX SQ Sequence 9 AA;
Query Match 72.0%; Score 36; DB 3; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 KYHRVIKDF 8
Db :|||||
1 KXHRVIKDF 8
RESULT 11
ID AAR96521 standard; peptide; 10 AA.
XX AC AAR96521;
XX DT 07-MAR-1997 (first entry)
XX DE Hepatitis C virus type 9 peptide.
XX KW Hepatitis C virus; subtype; polymerase chain reaction; amplification;
XX KW PCR; primer; probe; antibody; infection.
XX OS Synthetic.
XX PN WO9613590-A2.
XX PD 09-MAY-1996.
XX PF 23-OCT-1995; 95WO-EP004155.
XX PR 21-OCT-1994; 94EP-00870166.
XX PR 28-JUN-1995; 95EP-00870076.
XX PA (INNO-) INNOGENETICS NV.
XX PI Maertens G, Stuyver L;
XX DR WPI; 1996-251460/25.
XX PT Hepatitis C virus poly:nucleic acid unique to unidentified sub: type -
XX PT used to develop probes and primers for new sub: types and vaccines to
XX PT prevent and treat infection.
XX PS Claim 5; Page 68; 150pp; English.
XX CC The peptides AAR96424-R96524 represent novel peptides derived from the

CC novel hepatitis C virus subtypes 1d-f, 2e-i, 2k, 2l, 3g, 4k-m, 7a-c or
CC types 9, 10 or 11 (see AAF27937-T27989). The sequences corresp. to the 5'
CC untranslated region (UR), the Core/E1, NS4 or NS5B regions of the genome.
CC This sequence is from the HCV subtype 9. The new HCV types were isolated
CC from patients with chronic HCV from the Benelux countries, France,
CC Cameroon and Vietnam, because of their aberrant reactivities. The RNA was
CC extracted, cDNA synthesised and PCR amplified, cloned and genotyped. The
CC 5'UR, Core/E1 and NS5B regions were sequenced either directly or
CC partially and used to classify the new viruses into (sub)types based on
CC comparison with known sequences. The nucleotide sequences can be used to
CC synthesise probes and primers for the detection of HCV in a sample. The
CC polypeptides can be used to detect anti-HCV antibodies, for HCV typing or
CC to prevent HCV infections
XX
SQ Sequence 10 AA;

Query Match 62.0%; Score 31; DB 2; Length 10;
Best Local Similarity 62.5%; Pred. No. 31;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KYHRVIKD 8
|||:|:
Db 3 KYHQVTQD 10

RESULT 12
AAB82292
ID AAB82292 standard; peptide; 11 AA.

XX AAB82292;

DT 09-JUL-2001 (first entry)

DE Phosphorylation site in potato HMG-CoA reductase.

XX 3-Hydroxy-3-methylglutaryl-CoA reductase; HMG-CoA reductase; HMGR;
KW phosphorylation; isoprenoid; sterol; transgenic plant; potato;
KW pathogen resistance; disease resistance; crop protection.

XX Solanum tuberosum.

XX Key Location/Qualifiers

FT Modified-site 7 /note= "O-phosphorylated"

FT WO200131043-A1.

XX 03-MAY-2001.

PF 27-OCT-2000; 2000WO-GB004141.

XX 27-OCT-1999; 99GB-00025453.

XX (UYBR-) UNIV BRISTOL.

PI Halford NG, Hey SJ, Beale MH;

DR WPI; 2001-308654/32.

XX Modified 3-hydroxy-3-methylglutaryl-coenzyme A reductase gene, useful for
PT generating transgenic plants having increased isoprenoid production,
PT comprising a modified phosphorylation site.

XX Claim 16; Page 18; 23pp; English.

XX The present sequence is that of a phosphorylated region of the 3-hydroxy-
CC 3-methylglutaryl-coenzyme A reductase (HMGR) protein of potato. The
CC invention relates to modified HMGR genes useful for generating transgenic
CC plants having increased isoprenoid (especially sterol) production. The
CC modified genes encode modified HMGR proteins, in which a phosphorylation
CC site has been rendered inactive by replacing a Ser, Thr or Tyr residue
CC with Ala or other amino acid residue. This reduces transcriptional
CC regulation. The HMGR genes may be in the form of mutant plant and

CC plant/non-plant or different plant chimeric genes. Transcriptional
CC regulation can also be avoided by using heterologous promoters. Increased
CC seed sterol content has been demonstrated in transgenic plants. The
CC invention is used to produce plants having increased insect and mite pest
CC resistance, particularly against species of Homoptera, Diptera,
CC Lepidoptera, Coleoptera, Hymenoptera, Hemiptera, Dictyoptera, Orthoptera,
CC arachnids and mites, or it is used to attract beneficial insects,
CC including Odonata, Hymenoptera, Coleoptera, Neuroptera, or arachnids or
CC mites to the plant. It is also used to produce plants having increased
CC pathogen resistance, particularly against a fungus, especially Fusarium,
CC Aspergillus, Phytophthora, Gaeumannomyces, Downy mildews, Colletotrichum,
CC Cochliobolus, Tapesia, Magnaporthe, Stagnospora, Rhynchosporium,
CC Septoria, Helminthosporium, and powdery mildews such as Blumeria and
CC Erysiphe. The modified genes are particularly useful in maize, wheat,
CC rice, barley, oilseed rape, beans, sunflower, cabbage, potato, spinach,
CC broccoli, pea, cauliflower, tomato, forest trees, roses and tea. The
CC invention may also be used to add nutritional benefit such as fat-soluble
CC vitamins E and K, and sterols to a crop plant
XX
SQ Sequence 11 AA;

Query Match 62.0%; Score 31; DB 4; Length 11;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KYHRVIKD 8
|||:|:
Db 3 KYNRSIKD 10

RESULT 13

AAAY69959

ID AAY69959 standard; peptide; 9 AA.

XX AAY69959;

DT 11-APR-2000 (first entry)

XX Human cyclophilin B peptide fragment #39.

XX Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.

XX Homo sapiens.

XX WO9967288-A1.

XX 29-DEC-1999.

XX 24-JUN-1999; 99WO-JP003360.

XX 25-JUN-1998; 98JP-00178449.

XX (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.

XX Itoh K, Gomi S;

XX WPI; 2000-116932/10.

XX Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.

XX Claim 4; Page 61; 64pp; Japanese.

XX This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours

XX Sequence 9 AA;

Query Match 58.0%; Score 29; DB 3; Length 9;

Best Local Similarity 62.5%; Pred. No. 1.7e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 YHRVIKDF 9
Db :||| |
2 FHRVPSF 9

RESULT 14
AAY69924
ID AAY69924 standard; peptide; 11 AA.
XX
AC AAY69924;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #4.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
RW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
PN W09967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP003360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
XX
PI Itoh K, Gomi S;
XX
DR WPI; 2000-116932/10.
XX
PT Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 4; Page 50; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 11 AA;

Query Match 58.0%; Score 29; DB 3; Length 11;
Best Local Similarity 83.3%; Pred. No. 83;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHRVI 6
Db :||| |
6 KFHRI 11

RESULT 15
ABG94771
ID ABG94771 standard; peptide; 9 AA.
XX
AC ABG94771;
XX
DT 02-DEC-2002 (first entry)
XX
DE Replikin sequence identified by the 3-point recognition method #44.
XX
KW Replikin; glioma; malignin; anthrax; small pox; antiviral; antibacterial;
KW 3-point-recognition; vaccine; immunogen; Lethal Factor Protein pX01-107;
KW Surface Antigen S Precursor Protein.
XX

OS Polyoma virus.
XX
PN US2002120106-A1.
XX
PD 29-AUG-2002.
XX
PF 26-OCT-2001; 2001US-00984056.
XX
PR 04-SEP-1998; 98US-00146755.
PR 27-MAR-2001; 2001US-00817144.
PR 27-MAR-2001; 2001US-0278761P.
PR 09-JUL-2001; 2001US-0303396P.
XX
PA (BOGO/) BOGOCH S.
PA (BOGO/) BOGOCH E S.
XX
PI Bogoch S, Bogoch ES;
XX
DR WPI; 2002-691212/74.
XX
PT Isolated Bacillus anthracis and small pox virus peptides (I), also known
PT as replikins, useful for formulating vaccines for treating anthrax or
PT small pox, comprise 7 to 50 amino acids.
XX
PS Disclosure; Page 3; 16pp; English.
XX
CC The invention relates to isolated Bacillus anthracis and small pox virus
CC peptides, also known as replikins, comprising 7 to 50 amino acids
CC including at least one lysine residue located six to ten residues from a
CC second lysine residue, at least one histidine residue, and at least 6%
CC lysine residues. The peptides were identified using the 3-point-
CC recognition method and based on the replikin sequence isolated from
CC glioblastoma cells malignin peptide which is of non-human origin. Also
CC included are anti-replikin antibodies (or antibody cocktail), a method of
CC stimulating the immune system of a subject to produce antibodies to
CC Bacillus anthracis or small pox comprising administering an effective
CC amount of at least one or more Bacillus anthracis or small pox replikin
CC and an antisense nucleic acid molecule complementary to a mRNA encoding a
CC Bacillus anthracis polypeptide (e.g. Anthrax Lethal Factor Protein pX01-
CC 107) comprising a replikin sequence, an antisense nucleic acid molecule
CC complementary to a mRNA encoding a Small Pox Virus polypeptide (e.g.
CC Surface Antigen S Precursor Protein comprising a replikin sequence. The
CC peptides are useful for stimulating the immune system of a subject to
CC produce antibodies that bind specifically to Anthrax or small pox
CC polypeptides containing a replikin sequence. The peptides are useful for
CC generating antibodies that can be used in the treatment and/or prevention
CC of anthrax or small pox. The peptides are also useful for formulating
CC vaccines for treating anthrax or small pox. The present sequence is a
CC replikin sequence isolated by the 3-point-recognition system and sharing
CC structural similarity with the replikin sequence isolated from
XX glioblastoma cells malignin
SQ Sequence 9 AA;

Query Match 56.0%; Score 28; DB 5; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.7e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KYHRVIKD 8
Db :||| :||
1 KQHRELKD 8

Search completed: October 21, 2004, 07:21:03
Job time : 85 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:13:10 ; Search time 21.5 Seconds
(without alignments)
27.761 Million cell updates/sec

Title: US-09-720-469A-39
Perfect score: 50
Sequence: 1 KYHRVIKDF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 130155

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
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3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query Length	DB ID	Description
1	31	62.0	10	3	US-08-836-075A-204
2	29	58.0	11	4	US-09-418-780A-14
3	29	58.0	11	4	US-09-418-780A-22
4	27	54.0	12	2	US-08-471-286-1
5	25	50.0	11	1	US-08-503-062-8
6	25	50.0	11	5	PCT-US96-11495-8
7	25	50.0	12	2	US-08-973-563A-31
8	25	50.0	12	2	US-08-973-559-31
9	25	50.0	12	3	US-08-993-235-11
10	25	50.0	12	4	US-08-993-235-11
11	25	50.0	12	4	US-08-993-235-11
12	25	50.0	12	4	US-10-037-311B-16
13	24	48.0	11	1	US-08-378-761A-68
14	24	48.0	11	1	US-08-485-286-68
15	23	46.0	12	4	US-09-226-666-17
16	23	46.0	12	5	PCT-US94-05905-10
17	22	44.0	7	2	US-08-292-968-31
18	22	44.0	7	2	US-08-467-974-31
19	22	44.0	7	2	US-08-467-536-31
20	22	44.0	7	3	US-08-467-976-31
21	22	44.0	7	3	US-09-082-514-31
22	22	44.0	8	4	US-09-535-852-1043
23	22	44.0	9	2	US-08-646-981-13
24	22	44.0	9	4	US-09-417-608A-16
25	22	44.0	9	4	US-09-417-608A-41
26	22	44.0	10	2	US-08-556-597-122
27	22	44.0	10	4	US-09-878-281A-264

28	22	44.0	12	1	US-07-778-233B-29	Sequence 29, Appl
29	22	44.0	12	1	US-07-963-321-29	Sequence 29, Appl
30	22	44.0	12	1	US-08-290-641-29	Sequence 29, Appl
31	22	44.0	12	1	US-08-548-540-29	Sequence 29, Appl
32	22	44.0	12	3	US-08-742-243-6	Sequence 6, Appli
33	22	44.0	12	3	US-08-742-243-7	Sequence 7, Appli
34	22	44.0	12	3	US-08-742-243-8	Sequence 8, Appli
35	22	44.0	12	3	US-08-742-243-9	Sequence 9, Appli
36	22	44.0	12	5	PCT-US96-09809-29	Sequence 29, Appl
37	21	42.0	6	4	US-08-877-605-93	Sequence 93, Appl
38	21	42.0	6	4	US-08-877-605-94	Sequence 94, Appl
39	21	42.0	7	2	US-08-188-583-42	Sequence 42, Appl
40	21	42.0	7	2	US-08-292-968-37	Sequence 37, Appl
41	21	42.0	7	2	US-08-623-833B-45	Sequence 45, Appl
42	21	42.0	7	2	US-08-467-974-37	Sequence 37, Appl
43	21	42.0	7	2	US-08-467-536-37	Sequence 37, Appl
44	21	42.0	7	3	US-08-467-976-37	Sequence 37, Appl
45	21	42.0	7	3	US-09-082-514-37	Sequence 37, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-204
; Sequence 204, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836, 075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 204:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-836-075A-204

Query Match 62.0%; Score 31; DB 3; Length 10;
Best Local Similarity 62.5%; Pred. No. 10;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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QY      1 KYHRVIKD 8
      |||:|:|
Db      3 KYHQVTQD 10

RESULT 2
US-09-418-780A-14
; Sequence 14, Application US/09418780A
; Patent No. 6504009
; GENERAL INFORMATION:
; APPLICANT: Jones, Michael H.
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
; FILE REFERENCE: 06501-043001
; CURRENT APPLICATION NUMBER: US/09/418,780A
; CURRENT FILING DATE: 1999-10-15
; PRIOR APPLICATION NUMBER: PCT/JP98/01782
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: JAPAN 9/116402
; PRIOR FILING DATE: 1997-04-18
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-418-780A-14

Query Match      58.0%; Score 29; DB 4; Length 11;
Best Local Similarity 66.7%; Pred. No. 27;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 YHRVIK 7
      |||:|:|
Db      1 YHKIIK 6

RESULT 3
US-09-418-780A-22
; Sequence 22, Application US/09418780A
; Patent No. 6504009
; GENERAL INFORMATION:
; APPLICANT: Jones, Michael H.
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
; FILE REFERENCE: 06501-043001
; CURRENT APPLICATION NUMBER: US/09/418,780A
; CURRENT FILING DATE: 1999-10-15
; PRIOR APPLICATION NUMBER: PCT/JP98/01782
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: JAPAN 9/116402
; PRIOR FILING DATE: 1997-04-18
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-418-780A-22

Query Match      58.0%; Score 29; DB 4; Length 11;
Best Local Similarity 66.7%; Pred. No. 27;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 YHRVIK 7
      |||:|:|
Db      1 YHKIIK 6

RESULT 4
US-08-471-286-1
; Sequence 1, Application US/08471286
; Patent No. 5866688
; GENERAL INFORMATION:
; APPLICANT: Kim, Hyesook
; APPLICANT: Charnecki, Jonathan
; APPLICANT: Putt, David A.
; APPLICANT: Kim, Edward Y.
; TITLE OF INVENTION: PRODUCTION OF ANTI-PEPTIDE ANTIBODIES
; TITLE OF INVENTION: AGAINST CYTOCHROME P450
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Reising, Ethington, Barnard & Perry
; STREET: P.O. Box 4390
; CITY: Troy
; STATE: Michigan
; COUNTRY: US
; ZIP: 48099-4390
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/471,286
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Kohn, Kenneth I.
; REGISTRATION NUMBER: 30,955
; REFERENCE/DOCKET NUMBER: P-301 (Oxford)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (810) 689-3500
; TELEFAX: (810) 689-4071
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-471-286-1

Query Match      54.0%; Score 27; DB 2; Length 12;
Best Local Similarity 83.3%; Pred. No. 70;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 HRVIKD 8
      |||:|:|
Db      7 HRVTKD 12

RESULT 5
US-08-503-062-8
; Sequence 8, Application US/08503062
; Patent No. 5723303
; GENERAL INFORMATION:
; APPLICANT: Denis, Gerald V.
; APPLICANT: Green, Michael R.
; TITLE OF INVENTION: NUCLEAR LOCALIZED TRANSCRIPTION FACTOR
; TITLE OF INVENTION: KINASES AND DIAGNOSTIC ASSAYS RELATED THERETO
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/503,062
; FILING DATE: 10-JUL-1995
; CLASSIFICATION: 435
```

ATTORNEY/AGENT INFORMATION:
NAME: Clark, Paul T.
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 04020/080001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-503-062-8

Query Match 50.0%; Score 25; DB 1; Length 11;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 YHRVIK 7
Db 1 YHDIK 6

RESULT 6
PCT-US96-11495-8
Sequence 8, Application PC/TUS9611495
GENERAL INFORMATION:
APPLICANT: UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER
TITLE OF INVENTION: NUCLEAR LOCALIZED TRANSCRIPTION FACTOR
TITLE OF INVENTION: KINASES AND DIAGNOSTIC ASSAYS RELATED THERETO
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/11495
FILING DATE: 03-JUL-1996
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/503,062
FILING DATE: 10-JUL-1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Fasse, J. Peter
REGISTRATION NUMBER: 32,983
REFERENCE/DOCKET NUMBER: 04020/080W01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US96-11495-8

Query Match 50.0%; Score 25; DB 5; Length 11;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;

Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 2 YHRVIK 7
Db 1 YHDIK 6

RESULT 7
US-08-973-563A-31
Sequence 31, Application US/08973563A
Patent No. 5885965
GENERAL INFORMATION:
APPLICANT: Oppenheim, Frank G.
APPLICANT: Xu, Tao
APPLICANT: Spacciapoli, Peter
APPLICANT: Roberts, F. D.
APPLICANT: Frigen, Philip M.
TITLE OF INVENTION: Anti-Fungal D-Amino Acid Histatin-Based
TITLE OF INVENTION: Peptides
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: MA
COUNTRY: US
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/973,563A
FILING DATE: 07-JUN-1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,273
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: PER95-02A2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 781-861-6240
TELEFAX: 781-861-9540
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Region
LOCATION: 1..12
OTHER INFORMATION: /note= "At least one amino acid
OTHER INFORMATION: must have a D configuration."
US-08-973-563A-31

Query Match 50.0%; Score 25; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHR 4
Db 6 KYHR 9

RESULT 8
US-08-973-559-31
Sequence 31, Application US/08973559
Patent No. 5912230

GENERAL INFORMATION:
; APPLICANT: OPPENHEIM, FRANK G.
; APPLICANT: XU, TAO
; APPLICANT: ROBERTS, F. D.
; APPLICANT: SPACCIAPOLI, PETER
; APPLICANT: FRIDEN, PHILIP M.
; TITLE OF INVENTION: Anti-Fungal and Anti-Bacterial
; TITLE OF INVENTION: Histatin-Based Peptides
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: US
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/973,559
; FILING DATE: 07-JUN-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/481,888
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: PER95-01A2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 781-861-6240
; TELEFAX: 781-861-9540
; INFORMATION FOR SEQ ID NO: 31:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-973-559-31

Query Match 50.0%; Score 25; DB 2; Length 12;
Best Local Similarity 100.0%; Pred.No. 1.7e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHR 4
Db 6 KYHR 9

RESULT 9
US-08-993-235-11
; Sequence 11, Application US/08993235
; Patent No. 6084064
; GENERAL INFORMATION:
; APPLICANT: OPPENHEIM, FRANK G.
; APPLICANT: ROBERTS, F. DONALD
; APPLICANT: XU, TAO
; APPLICANT: SPACCIAPOLI, PETER
; TITLE OF INVENTION: ANTIFUNGAL AND ANTIBACTERIAL PEPTIDES
; FILE REFERENCE: 50032/002001
; CURRENT APPLICATION NUMBER: US/08/993,235
; CURRENT FILING DATE: 1997-12-18
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 11
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-993-235-11

Query Match 50.0%; Score 25; DB 3; Length 12;
Best Local Similarity 100.0%; Pred.No. 1.7e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHR 4
Db 6 KYHR 9

RESULT 10
US-09-226-666-7
; Sequence 7, Application US/09226666A
; Patent No. 6528488
; GENERAL INFORMATION:
; APPLICANT: Spacciapoli, Peter
; APPLICANT: Rothstein, David M.
; APPLICANT: Friden, Phillip M.
; TITLE OF INVENTION: METHOD FOR TREATING CYSTIC FIBROSIS
; FILE REFERENCE: 50032/007001
; CURRENT APPLICATION NUMBER: US/09/226,666A
; CURRENT FILING DATE: 1999-01-08
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from Homo sapiens
US-09-226-666-7

Query Match 50.0%; Score 25; DB 4; Length 12;
Best Local Similarity 100.0%; Pred.No. 1.7e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHR 4
Db 6 KYHR 9

RESULT 11
US-08-993-235-11
; Sequence 11, Application US/08993235
; Patent No. 6531573
; GENERAL INFORMATION:
; APPLICANT: OPPENHEIM, FRANK G.
; APPLICANT: ROBERTS, F. DONALD
; APPLICANT: XU, TAO
; APPLICANT: SPACCIAPOLI, PETER
; TITLE OF INVENTION: ANTIFUNGAL AND ANTIBACTERIAL PEPTIDES
; FILE REFERENCE: 50032/002001
; CURRENT APPLICATION NUMBER: US/08/993,235
; CURRENT FILING DATE: 1997-12-18
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 11
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-993-235-11

Query Match 50.0%; Score 25; DB 4; Length 12;
Best Local Similarity 100.0%; Pred.No. 1.7e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHR 4
Db 6 KYHR 9

RESULT 12
US-10-037-311B-16

; Sequence 16, Application US/10037311B
; Patent No. 6747190
; GENERAL INFORMATION:
; APPLICANT: MICHIGAN STATE UNIVERSITY
; TITLE OF INVENTION: XYLOGLUCAN FUCOSYLTRANSFERASES
; FILE REFERENCE: MS00-001C2
; CURRENT APPLICATION NUMBER: US/10/037,311B
; CURRENT FILING DATE: 2001-11-09
; PRIOR APPLICATION NUMBER: US60/117,555
; PRIOR FILING DATE: 1999-01-28
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Cross-species
US-10-037-311B-16

Query Match 50.0%; Score 25; DB 4; Length 12;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 HRVVKD 8
|:|:|
Db 6 HQVIRD 11

RESULT 13
US-08-378-761A-68
; Sequence 68, Application US/08378761A
; Patent No. 5635384
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/378,761A
; FILING DATE: 26-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-378-761A-68

Query Match 48.0%; Score 24; DB 1; Length 11;
Best Local Similarity 62.5%; Pred. No. 2.3e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KYHRVIKD 8
|:|:|
Db 3 KKARVVVD 10

RESULT 14

US-08-485-286-68
; Sequence 68, Application US/08485286
; Patent No. 5646026
; Patent No. 5646026 5646119
; GENERAL INFORMATION:
; APPLICANT: WALSH, TERENCE A
; APPLICANT: HEY, TIMOTHY D
; APPLICANT: MORGAN, ALICE ER
; TITLE OF INVENTION: RIBOSOME-INACTIVATING PROTEINS, INACTIVE
; TITLE OF INVENTION: PRECURSOR FORMS THEREOF, A PROCESS FOR MAKING A METHOD OF
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ANDREA T. BORUCKI
; STREET: 9330 ZIONSVILLE ROAD
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/485,286
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/378761
; FILING DATE: 26-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: BORUCKI, ANDREA T
; REGISTRATION NUMBER: 33651
; REFERENCE/DOCKET NUMBER: 38272B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 337-4846
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-485-286-68

Query Match 48.0%; Score 24; DB 1; Length 11;
Best Local Similarity 62.5%; Pred. No. 2.3e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KYHRVIKD 8
|:|:|
Db 3 KKARVVVD 10

RESULT 15

US-09-226-666-17
; Sequence 17, Application US/09226666A
; Patent No. 6528488
; GENERAL INFORMATION:
; APPLICANT: Spacciapoli, Peter
; APPLICANT: Rothstein, David M.
; APPLICANT: Friden, Phillip M.
; TITLE OF INVENTION: METHOD FOR TREATING CYSTIC FIBROSIS
; FILE REFERENCE: 50032/007001
; CURRENT APPLICATION NUMBER: US/09/226,666A

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; CURRENT FILING DATE: 1999-01-08
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from Homo sapiens
US-09-226-666-17

Query Match      46.0%; Score 23; DB 4; Length 12;
Best Local Similarity 44.4%; Pred. NO. 3.9e+02;
Matches 4; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy      1 KYHRVIKDF 9
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Db      3 KHKYHKKF 11
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Search completed: October 21, 2004, 07:29:30
Job time : 22.5 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:15:25 ; Search time 61.75 Seconds
(without alignments)
47.187 Million cell updates/sec

Title: US-09-720-469A-39
Perfect score: 50
Sequence: 1 KYHRVIKDF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1364641 seqs, 323758627 residues

Total number of hits satisfying chosen parameters: 193469

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
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- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	92.0	9	15	US-10-447-161-84
2	46	92.0	9	16	US-10-788-016-1
3	31	62.0	10	9	US-09-851-138-204
4	29	58.0	11	14	US-10-293-822-14
5	29	58.0	11	14	US-10-293-822-22
6	28	56.0	9	9	US-09-984-056-61
7	28	56.0	9	9	US-09-984-056-62
8	28	56.0	9	9	US-09-984-057-61
9	28	56.0	9	9	US-09-984-057-62
10	28	56.0	9	14	US-10-105-232-61
11	28	56.0	9	14	US-10-105-232-62
12	28	56.0	9	14	US-10-189-437-61
13	28	56.0	9	14	US-10-189-437-62
14	28	56.0	12	15	US-10-601-953-76

15	27	54.0	9	9	US-09-834-765-139	Sequence 139, Appl
16	27	54.0	9	9	US-09-834-765-419	Sequence 419, Appl
17	27	54.0	10	9	US-09-834-765-477	Sequence 477, Appl
18	27	54.0	10	9	US-09-834-765-666	Sequence 666, Appl
19	25	50.0	10	10	US-09-572-270A-759	Sequence 759, Appl
20	25	50.0	12	9	US-09-226-666-7	Sequence 7, Appli
21	25	50.0	12	15	US-10-601-953-64	Sequence 64, Appl
22	24	48.0	7	14	US-10-191-540-182	Sequence 182, Appl
23	24	48.0	9	14	US-10-211-207-23	Sequence 23, Appl
24	24	48.0	9	14	US-10-211-207-24	Sequence 24, Appl
25	24	48.0	9	14	US-10-077-106-23	Sequence 23, Appl
26	24	48.0	9	14	US-10-077-106-24	Sequence 24, Appl
27	23	46.0	8	16	US-10-712-425-1130	Sequence 1130, Ap
28	23	46.0	9	14	US-10-353-929-5	Sequence 5, Appli
29	23	46.0	11	9	US-09-984-056-72	Sequence 72, Appl
30	23	46.0	11	9	US-09-984-057-72	Sequence 72, Appl
31	23	46.0	11	14	US-10-105-232-72	Sequence 72, Appl
32	23	46.0	11	14	US-10-189-437-72	Sequence 72, Appl
33	23	46.0	12	9	US-09-226-666-17	Sequence 17, Appl
34	22	44.0	7	14	US-10-105-232-265	Sequence 265, Appl
35	22	44.0	7	14	US-10-405-339-26	Sequence 26, Appl
36	22	44.0	7	14	US-10-405-339-39	Sequence 39, Appl
37	22	44.0	7	14	US-10-405-339-42	Sequence 42, Appl
38	22	44.0	7	14	US-10-189-437-252	Sequence 252, Appl
39	22	44.0	9	16	US-10-730-454-16	Sequence 16, Appl
40	22	44.0	9	16	US-10-730-454-41	Sequence 41, Appl
41	22	44.0	10	9	US-09-819-308-29	Sequence 29, Appl
42	22	44.0	10	10	US-09-899-046-264	Sequence 264, Appl
43	22	44.0	10	10	US-09-878-281-264	Sequence 264, Appl
44	22	44.0	10	10	US-09-873-224-264	Sequence 264, Appl
45	22	44.0	11	9	US-09-795-006A-128	Sequence 128, Appl

ALIGNMENTS

RESULT 1
US-10-447-161-84
; Sequence 84, Application US/10447161
; Publication No. US20040023314A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Rong-fu
; TITLE OF INVENTION: Mutant Fibronectin and Tumor Metastasis
; FILE REFERENCE: HO-P02484US1
; CURRENT APPLICATION NUMBER: US/10/447,161
; CURRENT FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: 60/383,530
; PRIOR FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 84
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-447-161-84

Query Match 92.0%; Score 46; DB 15; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.2e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYHRVIKDF 9
|:|||||
Db 1 KYHRVIKDF 9

RESULT 2
US-10-788-016-1
; Sequence 1, Application US/10788016
; Publication No. US20040141992A1
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo

```

; TITLE OF INVENTION: Desensitizers
; FILE REFERENCE: 3190-049
; CURRENT APPLICATION NUMBER: US/10/788,016
; CURRENT FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/JP02/08641
; PRIOR FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: JP P2001-260046
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Peptide consisting of 9 amino acid residues from the 84th residue
; OTHER INFORMATION: to the 92nd residue of cyclophilin B
US-10-788-016-1

Query Match          92.0%; Score 46; DB 16; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.2e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 KYHRVIKDF 9
      |:|||||
Db      1 KHRVIKDF 9

RESULT 3
US-09-851-138-204
; Sequence 204, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 204:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 204:
US-09-851-138-204
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Query Match          62.0%; Score 31; DB 9; Length 10;
Best Local Similarity 62.5%; Pred. No. 24;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 KYHRVIKD 8
      |||:|:|
Db      3 KYHQVTQD 10

RESULT 4
US-10-293-822-14
; Sequence 14, Application US/10293822
; Publication No. US20030083470A1
; GENERAL INFORMATION:
; APPLICANT: Jones, Michael H.
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
; FILE REFERENCE: 06501-043001
; CURRENT APPLICATION NUMBER: US/10/293,822
; CURRENT FILING DATE: 2002-11-12
; PRIOR APPLICATION NUMBER: US/09/418,780
; PRIOR FILING DATE: 1999-10-15
; PRIOR APPLICATION NUMBER: PCT/JP98/01782
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: JAPAN 9/116402
; PRIOR FILING DATE: 1997-04-18
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-293-822-14

Query Match          58.0%; Score 29; DB 14; Length 11;
Best Local Similarity 66.7%; Pred. No. 64;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 YHRVIK 7
      ||:|
Db      1 YHKIIK 6

RESULT 5
US-10-293-822-22
; Sequence 22, Application US/10293822
; Publication No. US20030083470A1
; GENERAL INFORMATION:
; APPLICANT: Jones, Michael H.
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
; FILE REFERENCE: 36501-043001
; CURRENT APPLICATION NUMBER: US/10/293,822
; CURRENT FILING DATE: 2002-11-12
; PRIOR APPLICATION NUMBER: US/09/418,780
; PRIOR FILING DATE: 1999-10-15
; PRIOR APPLICATION NUMBER: PCT/JP98/01782
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: JAPAN 9/116402
; PRIOR FILING DATE: 1997-04-18
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-10-293-822-22

Query Match          58.0%; Score 29; DB 14; Length 11;
Best Local Similarity 66.7%; Pred. No. 64;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 YHRVIK 7
      ||:|
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Db 1 YHKIIX 6

RESULT 6

US-09-984-056-61
; Sequence 61, Application US/09984056
; Patent No. US20020120106A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: ANTHRAX AND SMALL POX REPLIKINS AND METHODS OF USE
; FILE REFERENCE: 09425-46903
; CURRENT APPLICATION NUMBER: US/09/984,056
; CURRENT FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 103
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 61
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-09-984-056-61

Query Match 56.0%; Score 28; DB 9; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KYHRVIKD 8
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Db 1 KQHRELKD 8

RESULT 7

US-09-984-056-62
; Sequence 62, Application US/09984056
; Patent No. US20020120106A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: ANTHRAX AND SMALL POX REPLIKINS AND METHODS OF USE
; FILE REFERENCE: 09425-46903
; CURRENT APPLICATION NUMBER: US/09/984,056
; CURRENT FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 103
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 62
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-09-984-056-62

Query Match 56.0%; Score 28; DB 9; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KYHRVIKD 8
| | | : ||
Db 1 KQHRELKD 8

RESULT 8

US-09-984-057-61
; Sequence 61, Application US/09984057
; Patent No. US20020151677A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKINS AND METHODS OF IDENTIFYING
; TITLE OF INVENTION: REPLIKIN-CONTAINING SEQUENCES
; FILE REFERENCE: 09425-46902
; CURRENT APPLICATION NUMBER: US/09/984,057
; CURRENT FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 90
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 61
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-09-984-057-61

Query Match 56.0%; Score 28; DB 9; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KYHRVIKD 8
| | | : ||
Db 1 KQHRELKD 8

RESULT 9

US-09-984-057-62
; Sequence 62, Application US/09984057
; Patent No. US20020151677A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKINS AND METHODS OF IDENTIFYING
; TITLE OF INVENTION: REPLIKIN-CONTAINING SEQUENCES
; FILE REFERENCE: 09425-46902
; CURRENT APPLICATION NUMBER: US/09/984,057
; CURRENT FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 90
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 62
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus

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US-09-984-057-62
Query Match      56.0%; Score 28; DB 9; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 KYHRVIKD 8
      | ||| :||
Db      1 KQHRELKD 8

RESULT 10
US-10-105-232-61
; Sequence 61, Application US/10105232
; Publication No. US20030180328A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKIN PEPTIDES IN RAPID REPLICATION OF GLIOMA CELLS
; TITLE OF INVENTION: AND IN INFLUENZA EPIDEMICS
; FILE REFERENCE: 09425-46904
; CURRENT APPLICATION NUMBER: US/10/105,232
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 535
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 61
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-10-105-232-61

Query Match      56.0%; Score 28; DB 14; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 KYHRVIKD 8
      | ||| :||
Db      1 KQHRELKD 8

RESULT 11
US-10-105-232-62
; Sequence 62, Application US/10105232
; Publication No. US20030180328A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKIN PEPTIDES IN RAPID REPLICATION OF GLIOMA CELLS
; TITLE OF INVENTION: AND IN INFLUENZA EPIDEMICS
; FILE REFERENCE: 09425-46904
; CURRENT APPLICATION NUMBER: US/10/105,232
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 535
; SOFTWARE: PatentIn 2.1

US-09-984-057-62
Query Match      56.0%; Score 28; DB 9; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 KYHRVIKD 8
      | ||| :||
Db      1 KQHRELKD 8

RESULT 10
US-10-105-232-61
; Sequence 61, Application US/10105232
; Publication No. US20030180328A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKIN PEPTIDES IN RAPID REPLICATION OF GLIOMA CELLS
; TITLE OF INVENTION: AND IN INFLUENZA EPIDEMICS
; FILE REFERENCE: 09425-46904
; CURRENT APPLICATION NUMBER: US/10/105,232
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 535
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 61
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-10-105-232-61

Query Match      56.0%; Score 28; DB 14; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 KYHRVIKD 8
      | ||| :||
Db      1 KQHRELKD 8

RESULT 11
US-10-105-232-62
; Sequence 62, Application US/10105232
; Publication No. US20030180328A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKIN PEPTIDES IN RAPID REPLICATION OF GLIOMA CELLS
; TITLE OF INVENTION: AND IN INFLUENZA EPIDEMICS
; FILE REFERENCE: 09425-46904
; CURRENT APPLICATION NUMBER: US/10/105,232
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/146,755
; PRIOR FILING DATE: 1998-09-04
; PRIOR APPLICATION NUMBER: 09/817,144
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 08/198,139
; PRIOR FILING DATE: 1994-02-17
; NUMBER OF SEQ ID NOS: 535
; SOFTWARE: PatentIn 2.1

US-09-984-057-62
Query Match      56.0%; Score 28; DB 14; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 KYHRVIKD 8
      | ||| :||
Db      1 KQHRELKD 8

RESULT 12
US-10-189-437-61
; Sequence 61, Application US/10189437
; Publication No. US20030194414A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKIN PEPTIDES AND ANTIBODIES THEREFORE
; FILE REFERENCE: 09425/46905
; CURRENT APPLICATION NUMBER: US/10/189,437
; CURRENT FILING DATE: 2002-07-08
; PRIOR APPLICATION NUMBER: 10/105,232
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 09/984,057
; PRIOR FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 729
; SOFTWARE: PatentIn 2.1
; SEQ ID NO 61
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-10-189-437-61

Query Match      56.0%; Score 28; DB 14; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 KYHRVIKD 8
      | ||| :||
Db      1 KQHRELKD 8

RESULT 13
US-10-189-437-62
; Sequence 62, Application US/10189437
; Publication No. US20030194414A1
; GENERAL INFORMATION:
; APPLICANT: BOGOCH, SAMUEL
; APPLICANT: BOGOCH, ELENORE S.
; TITLE OF INVENTION: REPLIKIN PEPTIDES AND ANTIBODIES THEREFORE
; FILE REFERENCE: 09425/46905
; CURRENT APPLICATION NUMBER: US/10/189,437
; CURRENT FILING DATE: 2002-07-08
; PRIOR APPLICATION NUMBER: 10/105,232
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 09/984,057
; PRIOR FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: 60/303,396
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/278,761
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 729
; SOFTWARE: PatentIn 2.1
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; SEQ ID NO 62
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Polyoma virus
US-10-189-437-62

Query Match      56.0%; Score 28; DB 14; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 KYHRVIKD 8
Db      1 KQHRELKD 8

RESULT 14
US-10-601-953-76
; Sequence 76, Application US/10601953
; Publication No. US20040077540A1
; GENERAL INFORMATION:
; APPLICANT: Quay, Steven C.
; TITLE OF INVENTION: Compositions And Methods For Modulating Physiology Of Epithelial
; TITLE OF INVENTION: Junctional Adhesion Molecules For Enhanced Mucosal Delivery Of
; TITLE OF INVENTION: Therapeutic Compounds
; FILE REFERENCE: 02-03US
; CURRENT APPLICATION NUMBER: US/10/601,953
; CURRENT FILING DATE: 2003-06-24
; PRIOR APPLICATION NUMBER: 60/392,512
; PRIOR FILING DATE: 2002-06-28
; NUMBER OF SEQ ID NOS: 900
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 76
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-601-953-76

Query Match      56.0%; Score 28; DB 15; Length 12;
Best Local Similarity 57.1%; Pred. No. 1.1e+02;
Matches 4; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      3 HRVIKDF 9
Db      1 HNIIQDF 7

RESULT 15
US-09-834-765-139
; Sequence 139, Application US/09834765
; Patent No. US20020055478A1
; GENERAL INFORMATION:
; APPLICANT: Mary Faris
; APPLICANT: Pia M. Challita-Bid
; APPLICANT: Arthur B. Raitano
; APPLICANT: Steve Chappell Mitchell
; APPLICANT: Daniel E.H. Afar
; APPLICANT: Aya Jakobovits
; TITLE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT
; TITLE OF INVENTION: AND DETECTION OF CANCER
; FILE REFERENCE: 129.6USU1
; CURRENT APPLICATION NUMBER: US/09/834,765
; CURRENT FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 60/197,647
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 770
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 139
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-834-765-139
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Query Match      54.0%; Score 27; DB 9; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      2 YHRVIKDF 9
Db      1 YEHVIKNF 8

Search completed: October 21, 2004, 07:33:43
Job time : 62.75 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: October 21, 2004, 07:12:54 ; Search time 15.75 Seconds
(without alignments)
54.981 Million cell updates/sec

Title: US-09-720-469A-39
Perfect score: 50
Sequence: 1 KYHRVIKDF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 1582

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	20	40.0	10	2 S36849	Ig heavy chain V r
2	19	38.0	12	2 PC4377	telomeric and tetr
3	18	36.0	11	2 I54193	Rhesus blood group
4	17	34.0	10	2 PC4374	telomeric and tetr
5	17	34.0	10	2 JQ0943	hypothetical 1.3K
6	16	32.0	8	2 S65381	cytochrome-c oxida
7	16	32.0	10	2 B39308	glycine reductase
8	16	32.0	11	2 S23373	T-cell receptor al
9	16	32.0	12	2 G64003	hypothetical prote
10	15	30.0	7	1 NYPG7	hypothalamic hepta
11	15	30.0	10	2 S13224	virG protein - Agr
12	15	30.0	10	2 A59272	peptide-N4- (N-acet
13	15	30.0	11	2 PC2330	cycloinulooligosac
14	15	30.0	11	4 I52708	ELAV-like neuronal
15	15	30.0	12	2 S10624	lipovitellin - Afr
16	15	30.0	12	2 PT0228	Ig heavy chain CDR
17	15	30.0	12	2 PQ0730	unidentified 5.4/3
18	14	28.0	6	2 B44510	hypothetical prote
19	14	28.0	7	2 PT0246	Ig heavy chain CRD
20	14	28.0	8	2 S66296	Na+-transporting A
21	14	28.0	9	2 C36730	hutU protein - Kle
22	14	28.0	9	2 S78420	ribosomal protein
23	14	28.0	9	2 A44787	calliFMRFamide 10
24	14	28.0	9	2 I49406	bone gla protein -
25	14	28.0	10	2 B56899	serum heterodimer,
26	14	28.0	11	2 G42762	proteasome endopep
27	14	28.0	11	2 PQ0733	unidentified 6.0/1
28	14	28.0	11	2 PH1376	T antigen variant
29	14	28.0	11	2 PN0042	stathmin - mouse (

30	14	28.0	12	2 S09082	proteasome chain 1
31	14	28.0	12	2 S34447	binR protein - Sta
32	13	26.0	6	2 S02617	alcohol dehydrogen
33	13	26.0	6	2 B56979	collagen alpha 1(I
34	13	26.0	8	2 S69165	ferredoxin a2 - Ja
35	13	26.0	9	2 T31612	hypothetical prote
36	13	26.0	9	2 PT0315	Ig heavy chain CRD
37	13	26.0	9	2 A42266	peptidylglycine mo
38	13	26.0	9	2 D57444	neuropeptide Grb-A
39	13	26.0	9	2 A41978	calliFMRFamide 1 -
40	13	26.0	9	2 B41978	calliFMRFamide 2 -
41	13	26.0	9	2 C41978	calliFMRFamide 3 -
42	13	26.0	9	2 D41978	calliFMRFamide 4 -
43	13	26.0	9	2 E41978	calliFMRFamide 5 -
44	13	26.0	9	2 F41978	calliFMRFamide 6 -
45	13	26.0	9	2 G41978	calliFMRFamide 7 -

ALIGNMENTS

RESULT 1

S36849
Ig heavy chain V region - mouse
C;Species: Mus musculus (house mouse)
C;Date: 06-Jan-1994 #sequence_revision 01-Dec-1995 #text_change 05-Nov-1999
C;Accession: S36849
R;Jacob, J.; Kelse, G.
submitted to the EMBL Data Library, July 1992
A;Description: In situ studies on the primary immune response to (4-hydroxy-3-nitrophenyl)
A;Reference number: S25024
A;Accession: S36849
A;Status: preliminary
A;Molecule type: nucleic acid
A;Residues: 1-10 <JAC>
A;Cross-references: EMBL:X67382; NID:G50070; PIDN:CAA47794.1; PID:e51590; PID:g1333861
C;Keywords: heterotetramer; immunoglobulin

Query Match 40.0%; Score 20; DB 2; Length 10;
Best Local Similarity 33.3%; Pred. No. 9.1e+02;
Matches 3; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 KYHRVIKDF 9
Db 2 RYRTVVVNF 10

RESULT 2

PC4377
telomeric and tetraplex DNA binding protein qTBP42 VIII - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 28-Oct-1997 #sequence_revision 28-Oct-1997 #text_change 09-Jul-2004
C;Accession: PC4377
R;Sari, G.; Weisman-Shomer, P.; Fry, M.
Biochem. Biophys. Res. Commun. 237, 617-623, 1997
A;Title: Telomeric and tetraplex DNA binding properties of the CA
A;Reference number: PC4377; MUID:97445086; PMID:9299414
A;Accession: PC4377
A;Molecule type: protein
A;Residues: 1-12 <SAR>
A;Cross-references: UNIPROT:Q9X80; UNIPROT:Q9Z0U8; UNIPROT:O88311; UNIPROT:Q9QX81
C;Comment: This protein binds either strand of the telomeric DNA as well as unimolecular

Query Match 38.0%; Score 19; DB 2; Length 12;
Best Local Similarity 60.0%; Pred. No. 1.7e+03;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KYHRV 5
Db 3 KFHTV 7

RESULT 3

I54193
Rhesus blood group CcBe protein - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 06-Sep-1996 #sequence_revision 06-Sep-1996 #text_change 09-Jul-2004
C;Accession: I54193
R;Cherif-Zahar, B.; Le Van Kim, C.; Rouillac, C.; Raynal, V.; Cartron, J.P.; Colin, Y.
Genomics 19, 68-74, 1994
A;Title: Organization of the gene (RHCE) encoding the human blood group RhCcEe antigens
A;Reference number: I54193; MUID:94245182; PMID:8188244
A;Accession: I54193
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-11 <RES>
A;Cross-references: UNIPROT:Q9UPC8; UNIPROT:Q99906; UNIPROT:Q9UK19; UNIPROT:Q9UPN0; UNIPROT:Q9UEC7; GB:S70456; NID:G546795; PIDN:AAD14061.1; PID:G4261761
C;Genetics:
A;Gene: GDB:RHCE
A;Cross-references: GDB:229957; OMIM:111700
A;Map position: 1p36.2-1p34
Query Match 36.0%; Score 18; DB 2; Length 11;
Best Local Similarity 42.9%; Pred. No. 2.4e+03;
Matches 3; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 1 KYHRVIX 7
Db 4 KYPRSVR 10
RESULT 4
PC4374
telomeric and tetraplex DNA binding protein qTBP42 IV - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 28-Oct-1997 #sequence_revision 28-Oct-1997 #text_change 07-May-1999
C;Accession: PC4374
R;Sarif, G.; Weisman-Shomer, P.; Fry, M.
Biochem. Biophys. Res. Commun. 237, 617-623, 1997
A;Title: Telomeric and tetraplex DNA binding properties of qTBP42: A homologue of the CA
A;Reference number: PC4371; MUID:97445086; PMID:9299414
A;Accession: PC4374
A;Molecule type: protein
A;Residues: 1-10 <SAR>
C;Comment: This protein binds either strand of the telomeric DNA as well as unimolecular
Query Match 34.0%; Score 17; DB 2; Length 10;
Best Local Similarity 60.0%; Pred. No. 3.4e+03;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1 KYHRV 5
Db 6 KEHRL 10
RESULT 5
JQ0943
hypothetical 1.3K protein - infectious bursal disease virus (strain 52/70)
C;Species: infectious bursal disease virus
C;Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 09-Jul-2004
C;Accession: JQ0943
R;Bayliss, C.D.; Spies, U.; Shaw, K.; Peters, R.W.; Papageorgiou, A.; Mueller, H.; Bours
J. Gen. Virol. 71, 1303-1312, 1990
A;Title: A comparison of the sequences of segment A of four infectious bursal disease vi
A;Reference number: JQ0941; MUID:90278420; PMID:2161902
A;Accession: JQ0943
A;Status: translation not shown
A;Molecule type: Genomic RNA
A;Residues: 1-10 <BAY>
A;Cross-references: UNIPROT:Q82625; GB:D00869; NID:G221038; PIDN:BAA00743.1; PID:d100120
Query Match 34.0%; Score 17; DB 2; Length 10;
Best Local Similarity 66.7%; Pred. No. 3.4e+03;
Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYH 3
Db 8 RYH 10
RESULT 6
S65381
cytochrome-c oxidase (EC 1.9.3.1) chain V1b, hepatic - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 28-Oct-1996 #sequence_revision 13-Mar-1997 #text_change 09-Jul-2004
C;Accession: S65381
R;Schaegger, H.; Noack, H.; Halangk, W.; Brandt, U.; von Jagow, G.
Eur. J. Biochem. 230, 235-241, 1995
A;Title: Cytochrome-c oxidase in developing rat heart. Enzymic properties and amino-termi
A;Reference number: S65372; MUID:95324529; PMID:7601105
A;Accession: S65381
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-8 <SCH>
A;Cross-references: UNIPROT:P80430
C;Keywords: oxidoreductase
Query Match 32.0%; Score 16; DB 2; Length 8;
Best Local Similarity 66.7%; Pred. No. 2.8e+05;
Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 2 YHR 4
Db 6 FHR 8
RESULT 7
B39308
glycine reductase (EC 1.4.99.-) sulphydryl protein C, beta chain - Clostridium sticklandii
C;Species: Clostridium sticklandii
C;Date: 19-Jun-1992 #sequence_revision 19-Jun-1992 #text_change 09-Jul-2004
C;Accession: B39308
R;Stadtman, T.C.; Davis, J.N.
J. Biol. Chem. 266, 22147-22153, 1991
A;Title: Glycine reductase protein C. Properties and characterization of its role in the
A;Reference number: A39308; MUID:92042141; PMID:1939235
A;Accession: B39308
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <STA>
A;Cross-references: UNIPROT:Q9EV92
C;Function:
A;Description: glycine reductase complex catalyzes the reductive deamination of glycine t
C;Keywords: ATP; oxidoreductase
Query Match 32.0%; Score 16; DB 2; Length 10;
Best Local Similarity 50.0%; Pred. No. 5.3e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 3 HRVIKD 8
Db 4 NKVIAD 9
RESULT 8
S23373
T-cell receptor alpha chain J region - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 22-Nov-1993 #sequence_revision 26-May-1995 #text_change 17-Mar-1999
C;Accession: S23373
R;Pluschke, G.; Ricken, G.; Taube, H.; Kroninger, S.; Melchers, I.; Peter, H.H.; Eichman
Eur. J. Immunol. 21, 2749-2754, 1991
A;Title: Biased T cell receptor V(alpha) region repertoire in the synovial fluid of rheu
A;Reference number: S23364; MUID:92037820; PMID:1657615
A;Accession: S23373
A;Status: preliminary; translation not shown
A;Molecule type: mRNA
A;Residues: 1-11 <PLU>

A;Cross-references: EMBL:X58168
C;Keywords: T-cell receptor

Query Match 32.0%; Score 16; DB 2; Length 11;
Best Local Similarity 60.0%; Pred. No. 5.9e+03;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 YHRVI 6
| : ||
Db 6 YDKVI 10

RESULT 9

G64003
hypothetical protein HI0195 - Haemophilus influenzae (strain Rd KW20)
C;Species: Haemophilus influenzae
C;Date: 18-Aug-1995 #sequence_revision 18-Aug-1995 #text_change 30-Jun-1998
C;Accession: G64003
R;Fleischmann, R.D.; Adams, M.D.; White, O.; Clayton, R.A.; Kirkness, E.F.; Kerlavage, A.; Gocayne, J.D.; Scott, J.; Shirley, R.; Liu, L.I.; Glodek, A.; Kelley, J.M.; Weidman, J.; D.M.; Brandon, R.C.; Fine, L.D.; Fritchman, J.L.; Fuhrmann, J.L.; Geoghagen, N.S.M. Science 269, 496-512, 1995
A;Authors: Gnehm, C.L.; McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, A.; Title: Whole-genome random sequencing and assembly of Haemophilus influenzae Rd.
A;Reference number: A64000; MUID:95350630; PMID:7542800
A;Accession: G64003
A;Status: nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-12 <TIGR>
A;Cross-references: GB:U32704; GB:L42023; NID:G1573143; PID:G1573155; TIGR:HI0195

Query Match 32.0%; Score 16; DB 2; Length 12;
Best Local Similarity 66.7%; Pred. No. 6.4e+03;
Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KYH 3
: ||
Db 4 QYH 6

RESULT 10

NYPG7
hypothalamic heptapeptide - pig
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 01-Sep-1981 #sequence_revision 01-Sep-1981 #text_change 09-Jul-2004
C;Accession: A01417
R;Chang, R.C.C.; Huang, W.Y.; Arimura, A.; Redding, T.W.; Coy, D.H.; Saffran, M.; Kong, H.M. Metab. Res. 13, 228-232, 1981
A;Title: Isolation, structure and synthesis of a heptapeptide with in vitro ACTH-releasing activity
A;Reference number: A01417; MUID:81213980; PMID:6263778
A;Accession: A01417
A;Molecule type: protein
A;Residues: 1-7 <CHA>
A;Cross-references: UNIPROT:P01153
C;Superfamily: hypothalamic heptapeptide
C;Keywords: hypothalamus

Query Match 30.0%; Score 15; DB 1; Length 7;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 YH 3
||
Db 3 YH 4

RESULT 11

S13224
virG protein - Agrobacterium sp. (fragment)
C;Species: Agrobacterium sp.
C;Date: 19-Mar-1997 #sequence_revision 01-Aug-1997 #text_change 09-Jul-2004
C;Accession: S13224
R;Tamamoto, S.; Aoyama, T.; Takanami, M.; Oka, A.

J. Mol. Biol. 215, 537-547, 1990
A;Title: Binding of the regulatory protein VirG to the phased signal sequences upstream of the vir operon
A;Reference number: S13224; MUID:91039316; PMID:2231718
A;Accession: S13224
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <TAM>
A;Cross-references: UNIPROT:Q7M0P7

Query Match 30.0%; Score 15; DB 2; Length 10;
Best Local Similarity 50.0%; Pred. No. 8.3e+03;
Matches 4; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 KYHRVIKD 8
| : ||
Db 2 KHVLVIDD 9

RESULT 12

A59272
peptide-N4-(N-acetyl-beta-glucosaminyl)asparagine amidase (EC 3.5.1.52) A, large chain -
N;Alternate names: peptide N-glycosidase
C;Species: Prunus dulcis var. sativa (sweet almond)
C;Date: 19-May-2000 #sequence_revision 19-May-2000 #text_change 09-Jul-2004
C;Accession: A59272
R;Altman, F.; Paschinger, K.; Dalik, T.; Vorauer, K. Eur. J. Biochem. 252, 118-123, 1998
A;Title: Characterisation of peptide-N4-(N-acetyl-beta-glucosaminyl)asparagine amidase A
A;Reference number: A59272; MUID:98181894; PMID:9523720
A;Accession: A59272
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <ALT>
A;Cross-references: UNIPROT:P81899
C;Keywords: hydrolase

Query Match 30.0%; Score 15; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 8.3e+03;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 YH 3
||
Db 5 YH 6

RESULT 13

PC2330
cycloinulooligosaccharide fructanotransferase (EC 2.4.-.-) - Bacillus circulans (MCI-2554)
C;Species: Bacillus circulans
C;Date: 21-Mar-1995 #sequence_revision 26-May-1995 #text_change 09-Jul-2004
C;Accession: PC2330
R;Kushibe, S.; Mitsui, K.; Yamagishi, M.; Yamada, K.; Morimoto, Y. Biosci. Biotechnol. Biochem. 59, 31-34, 1995
A;Title: Purification and characterization of cycloinulooligosaccharide fructanotransferase
A;Reference number: PC2330; MUID:95201377; PMID:7765973
A;Accession: PC2330
A;Molecule type: protein
A;Residues: 1-11 <KUS>
A;Cross-references: UNIPROT:Q7M0L3
A;Comment: This enzyme hydrolyzes beta-(2-1) glycosidic linkages and acts in intermolecular transglycosylation
C;Keywords: glycosyltransferase; hexosyltransferase

Query Match 30.0%; Score 15; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 9.1e+03;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 YH 3
||
Db 1 YH 2

RESULT 14

I52708

ELAV-like neuronal protein 1, truncated splice form - human
N;Alternate names: Drosophila ELAV(embryonic lethal, abnormal vision)-like 4; Hu antigen
C;Species: Homo sapiens (man)
C;Date: 18-Aug-2000 #sequence_revision 18-Aug-2000 #text_change 09-Jul-2004
C;Accession: I52708
R;Sekido, Y.; Bader, S.A.; Carbone, D.P.; Johnson, B.E.; Minna, J.D.
Cancer Res. 54, 4988-4992, 1994
A;Title: Molecular analysis of the HuD gene encoding a paraneoplastic encephalomyelitis
A;Reference number: I52708; MUID:94349312; PMID:8069866
A;Accession: I52708
A;Status: translated from GB/EMBL/DBDJ
A;Molecule type: mRNA
A;Residues: 1-11 <SEK>
A;Cross-references: UNIPROT:Q16234; GB:S73887; NID:9688242; PIDN:AAD14142.1; PID:9426184
C;Comment: This abnormal peptide is expressed. For the long splice form, see PIR:I38726.
C;Genetics:
A;Gene: GDB:ELAVL4; HUD; PNEM
A;Cross-references: GDB:141875; OMIM:168360
A;Map position: lp36-lp36
C;Keywords: alternative splicing

Query Match 30.0%; Score 15; DB 4; Length 11;
Best Local Similarity 50.0%; Pred. No. 9.1e+03;
Matches 2; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 4 RVIK 7
|:|
Db 6 RILK 9

RESULT 15

S10624
lipovitellin - African clawed frog
C;Species: Xenopus laevis (African clawed frog)
C;Date: 18-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 10-Nov-1995
C;Accession: S10624
R;Wallace, R.A.; Hoch, K.L.; Carnevali, O.
J. Mol. Biol. 213, 407-409, 1990
A;Title: Placement of small lipovitellin subunits within the vitellogenin precursor in X
A;Reference number: S10624; MUID:90278951; PMID:2352275
A;Accession: S10624
A;Molecule type: protein
A;Residues: 1-12 <WAL>

Query Match 30.0%; Score 15; DB 2; Length 12;
Best Local Similarity 42.9%; Pred. No. 1e+04;
Matches 3; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 KYHRVIK 7
|:|
Db 1 KFQRPYK 7

Search completed: October 21, 2004, 07:27:59
Job time : 16.75 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:05:04 ; Search time 86 Seconds
(without alignments)
60.214 Million cell updates/sec

Title: US-09-720-469A-39
Perfect score: 50
Sequence: 1 KYHRVIKDF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1825181 seqs, 575374646 residues

Total number of hits satisfying chosen parameters: 4909

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Uniprot_02:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	22	44.0	9	2	Q7SCD2
2	21	42.0	8	2	Q8AWV7
3	21	42.0	8	2	Q8AWV8
4	21	42.0	8	2	Q8AWV9
5	21	42.0	8	2	Q8AWW0
6	21	42.0	11	2	Q9XSP2
7	21	42.0	11	2	Q9XSP5
8	21	42.0	11	2	Q9XSP6
9	21	42.0	11	2	Q9XSP7
10	21	42.0	11	2	Q9XSP8
11	21	42.0	11	2	Q9XSQ4
12	20	40.0	8	2	Q05403
13	20	40.0	10	2	Q9TQV4
14	20	40.0	12	2	Q9TT29
15	20	40.0	12	2	Q9TT31
16	19	38.0	10	2	Q8N6B1
17	18	36.0	12	2	Q7RGL4
18	17	34.0	9	1	BS43_SERPL
19	17	34.0	9	2	Q9TWX7
20	17	34.0	9	2	Q8MJN1
21	17	34.0	9	2	Q8MJN2
22	17	34.0	9	2	Q8MJN3
23	17	34.0	9	2	Q8MJN4
24	17	34.0	9	2	Q8MJN5
25	17	34.0	9	2	Q8MJN6
26	17	34.0	9	2	Q8MJN7
27	17	34.0	9	2	Q8MJN8
28	17	34.0	9	2	Q8MJN9
29	17	34.0	10	2	Q93LX4
30	17	34.0	10	2	Q8RJF1
31	17	34.0	10	2	Q82625

32	17	34.0	11	2	Q8MEL7	Q8mel7 sida hooker
33	17	34.0	11	2	Q8MEL9	Q8mel9 pavonia has
34	17	34.0	11	2	Q8MEM2	Q8mem2 lagunaria p
35	17	34.0	11	2	Q8MEP0	Q8mep0 hibiscus pe
36	17	34.0	11	2	Q8MEP3	Q8mep3 hibiscus no
37	17	34.0	11	2	Q8MEP5	Q8mep5 hibiscus mi
38	17	34.0	11	2	Q8MEQ7	Q8meq7 hibiscus dr
39	17	34.0	11	2	Q8MER0	Q8mer0 hibiscus co
40	17	34.0	11	2	Q8MER1	Q8mer1 hibiscus ca
41	17	34.0	11	2	Q8MER7	Q8mer7 fioria viti
42	17	34.0	11	2	Q8MER8	Q8mer8 dombeya til
43	17	34.0	11	2	Q8MES1	Q8mes1 alyogyne pi
44	17	34.0	11	2	Q8MES3	Q8mes3 alyogyne cr
45	17	34.0	11	2	Q8MES5	Q8mes5 abelmoschus

ALIGNMENTS

RESULT 1
Q7SCD2
ID Q7SCD2 PRELIMINARY; PRT; 9 AA.
AC Q7SCD2;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Predicted protein.
GN Name=NCU05334.1;
OS Neurospora crassa.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
OC Sordariomycetidae; Sordariales; Sordariaceae; Neurospora.
OX NCBI_TaxID=5141;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=OR74A;
RA Galagan J.E., Calvo S.E., Borkovich K.A., Selker E.U., Read N.D.,
RA Jaffe D., FitzHugh W., Ma L.-J., Smirnov S., Purcell S., Rehman B.,
RA Elkins T., Engels R., Wang S., Nielsen C.B., Butler J., Endrizzi M.,
RA Qui D., Ianakiev P., Pedersen D., Nelson M., Washburne M.,
RA Selltreinnikoff C.P., Kinsey J.A., Braun E.L., Zelter A., Schulte U.,
RA Kothe G.O., Jedd G., Mewes W., Staben C., Marcotte E., Greenberg D.,
RA Roy A., Foley K., Naylor J., Thomann N., Barrett R., Gnerre S.,
RA Kamal M., Kamysseles M., Mauceli E., Bielke C., Rudd S., Frishman D.,
RA Krystofova S., Rasmussen C., Metzenberg R.L., Perkins D.D., Kroken S.,
RA Cogoni C., Macino G., Catcheside D., Li W., Pratt R.J., Osmani S.A.,
RA DeSouza C.C., Glass L., Orbach M.J., Berglund J., Voelker R.,
RA Yarden O., Plamann M., Seiler S., Dunlap J., Radford A., Aramayo R.,
RA Natvig D.O., Alex L.A., Mannhaupt G., Ebbole D.J., Freitag M.,
RA Paulsen I., Sachs M.S., Lander E.S., Nusbaum C., Birren B.;
RT "The Genome Sequence of the Filamentous Fungus Neurospora crassa.";
RL Nature 0:0-0(2003).
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AABX01000130; EAA34319.1; -.
SQ SEQUENCE 9 AA; 1173 MW; C483A32B50440449 CRC64;

Query Match 44.0%; Score 22; DB 2; Length 9;
Best Local Similarity 42.9%; Pred. No. 1.8e+06;
Matches 3; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YHRVIKD 8
: : :
Db 2 FNRIYKD 8

RESULT 2
Q8AWV7
ID Q8AWV7 PRELIMINARY; PRT; 8 AA.
AC Q8AWV7;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)

DE LDH-B (Fragment).
GN Name=LDH-B;
OS Anas platyrhynchos (Domestic duck).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Anseriformes; Anatidae; Anas.
OX NCBI_TaxID=8839;
RN [1]
RP SEQUENCE FROM N.A.
RA Cotter J.-P., StJohn J., Quinn T.W.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY123327; AAM96901.1; -.
FT NON_TER 1 1
FT NON_TER 8 8
SQ SEQUENCE 8 AA; 911 MW; D73AADC2C05331F1 CRC64;

Query Match 42.0%; Score 21; DB 2; Length 8;
Best Local Similarity 33.3%; Pred. No. 1.8e+06;
Matches 2; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIKD 8
|:::|
Db 2 HKIVAD 7

RESULT 3

Q8AWV8 ID Q8AWV8 PRELIMINARY; PRT; 8 AA.

AC Q8AWV8;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE LDH-B (Fragment).
GN Name=LDH-B;
OS Cygnus columbianus (tundra swan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Anseriformes; Anatidae; Cygnus.
OX NCBI_TaxID=110926;
RN [1]
RP SEQUENCE FROM N.A.
RA Cotter J.-P., StJohn J., Quinn T.W.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY123326; AAM96900.1; -.
FT NON_TER 1 1
FT NON_TER 8 8
SQ SEQUENCE 8 AA; 911 MW; D73AADC2C05331F1 CRC64;

Query Match 42.0%; Score 21; DB 2; Length 8;
Best Local Similarity 33.3%; Pred. No. 1.8e+06;
Matches 2; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIKD 8
|:::|
Db 2 HKIVAD 7

RESULT 4

Q8AWV9 ID Q8AWV9 PRELIMINARY; PRT; 8 AA.

AC Q8AWV9;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE LDH-B (Fragment).
GN Name=LDH-B;
OS Anser caerulescens caerulescens (snow goose).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Anseriformes; Anatidae; Anser.
OX NCBI_TaxID=70340;
RN [1]
RP SEQUENCE FROM N.A.
RA Cotter J.-P., StJohn J., Quinn T.W.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY123325; AAM96899.1; -.

FT NON_TER 1 1
FT NON_TER 8 8
SQ SEQUENCE 8 AA; 911 MW; D73AADC2C05331F1 CRC64;

Query Match 42.0%; Score 21; DB 2; Length 8;
Best Local Similarity 33.3%; Pred. No. 1.8e+06;
Matches 2; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIKD 8
|:::|
Db 2 HKIVAD 7

RESULT 5

Q8AWW0 ID Q8AWW0 PRELIMINARY; PRT; 8 AA.

AC Q8AWW0;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE LDH-B (Fragment).
GN Name=LDH-B;
OS Coscoroba coscoroba (Coscoroba swan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Anseriformes; Anatidae; Coscoroba.
OX NCBI_TaxID=8863;
RN [1]
RP SEQUENCE FROM N.A.
RA Cotter J.-P., StJohn J., Quinn T.W.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY123324; AAM96898.1; -.
FT NON_TER 1 1
FT NON_TER 8 8
SQ SEQUENCE 8 AA; 911 MW; D73AADC2C05331F1 CRC64;

Query Match 42.0%; Score 21; DB 2; Length 8;
Best Local Similarity 33.3%; Pred. No. 1.8e+06;
Matches 2; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 HRVIKD 8
|:::|
Db 2 HKIVAD 7

RESULT 6

Q9XSP2 ID Q9XSP2 PRELIMINARY; PRT; 11 AA.

AC Q9XSP2;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
GN Name=PDGFA;
OS Hylobates syndactylus (Siamang) (Sympalangus syndactylus).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hylobatidae; Hylobates.
OX NCBI_TaxID=9590;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus."
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243280; CAB45927.1; -.

FT NON_TER 1 1
FT NON_TER 11 11
SQ SEQUENCE 11 AA; 1345 MW; 7FB881F101E1E044 CRC64;

Query Match 42.0%; Score 21; DB 2; Length 11;
Best Local Similarity 50.0%; Pred. No. 3.9e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 YHRVIK 7

```
Db          :||| :|
            6 HHRSVK 11

RESULT 7
Q9XSP5      PRELIMINARY;      PRT;      11 AA.
AC Q9XSP5;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
GN Name=PDGFA;
OS Pan troglodytes (Chimpanzee).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
OX NCBI_TaxID=9598;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus.";
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243277; CAB45926.1; -.
FT NON_TER 1 1
FT NON_TER 11 11
SQ SEQUENCE 11 AA; 1331 MW; 7FB881F101E1F2D4 CRC64;

Query Match      42.0%; Score 21; DB 2; Length 11;
Best Local Similarity 50.0%; Pred. No. 3.9e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY          2 YHRVIK 7
          :||| :|
          6 HHRSVK 11

Db          :||| :|
          6 HHRSVK 11

RESULT 8
Q9XSP6      PRELIMINARY;      PRT;      11 AA.
AC Q9XSP6;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
GN Name=PDGFA;
OS Pongo pygmaeus (Orangutan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pongo.
OX NCBI_TaxID=9600;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus.";
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243279; CAB45925.1; -.
FT NON_TER 1 1
FT NON_TER 11 11
SQ SEQUENCE 11 AA; 1345 MW; 7FB881F101E1E044 CRC64;

Query Match      42.0%; Score 21; DB 2; Length 11;
Best Local Similarity 50.0%; Pred. No. 3.9e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY          2 YHRVIK 7
          :||| :|
          6 HHRSVK 11

Db          :||| :|
          6 HHRSVK 11

RESULT 9
Q9XSP7      PRELIMINARY;      PRT;      11 AA.
ID Q9XSP7 ;
AC Q9XSP7;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
GN Name=PDGFA;
OS Pygathrix nemaeus (Dove langur).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae; Colobinae;
OC Pygathrix.
OX NCBI_TaxID=54133;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus.";
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243282; CAB45924.1; -.
FT NON_TER 1 1
FT NON_TER 11 11
SQ SEQUENCE 11 AA; 1345 MW; 7FB881F101E1E044 CRC64;

Query Match      42.0%; Score 21; DB 2; Length 11;
Best Local Similarity 50.0%; Pred. No. 3.9e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY          2 YHRVIK 7
          :||| :|
          6 HHRSVK 11

Db          :||| :|
          6 HHRSVK 11

RESULT 10
Q9XSP8      PRELIMINARY;      PRT;      11 AA.
ID Q9XSP8
AC Q9XSP8;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
GN Name=PDGFA;
OS Presbytis johnii.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae; Colobinae;
OC Presbytis.
OX NCBI_TaxID=98375;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus.";
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243281; CAB46013.1; -.
FT NON_TER 1 1
FT NON_TER 11 11
SQ SEQUENCE 11 AA; 1345 MW; 7FB881F101E1E044 CRC64;

Query Match      42.0%; Score 21; DB 2; Length 11;
Best Local Similarity 50.0%; Pred. No. 3.9e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY          2 YHRVIK 7
          :||| :|
          6 HHRSVK 11

Db          :||| :|
          6 HHRSVK 11

RESULT 11
Q9XSQ4      PRELIMINARY;      PRT;      11 AA.
ID Q9XSQ4
AC Q9XSQ4;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
```

```
AC Q9XSP7;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
GN Name=PDGFA;
OS Pygathrix nemaeus (Dove langur).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae; Colobinae;
OC Pygathrix.
OX NCBI_TaxID=54133;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus.";
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243282; CAB45924.1; -.
FT NON_TER 1 1
FT NON_TER 11 11
SQ SEQUENCE 11 AA; 1345 MW; 7FB881F101E1E044 CRC64;

Query Match      42.0%; Score 21; DB 2; Length 11;
Best Local Similarity 50.0%; Pred. No. 3.9e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY          2 YHRVIK 7
          :||| :|
          6 HHRSVK 11

Db          :||| :|
          6 HHRSVK 11

RESULT 10
Q9XSP8      PRELIMINARY;      PRT;      11 AA.
ID Q9XSP8
AC Q9XSP8;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
GN Name=PDGFA;
OS Presbytis johnii.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae; Colobinae;
OC Presbytis.
OX NCBI_TaxID=98375;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus.";
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243281; CAB46013.1; -.
FT NON_TER 1 1
FT NON_TER 11 11
SQ SEQUENCE 11 AA; 1345 MW; 7FB881F101E1E044 CRC64;

Query Match      42.0%; Score 21; DB 2; Length 11;
Best Local Similarity 50.0%; Pred. No. 3.9e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY          2 YHRVIK 7
          :||| :|
          6 HHRSVK 11

Db          :||| :|
          6 HHRSVK 11

RESULT 11
Q9XSQ4      PRELIMINARY;      PRT;      11 AA.
ID Q9XSQ4
AC Q9XSQ4;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Platelet-derived growth factor A chain (Fragment).
```


GN Name=PDGFA;
OS Gorilla gorilla (gorilla).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Gorilla.
OX NCBI_TaxID=9593;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20065871; PubMed=10598812;
RA Bonthron D.T., Smith S.L., Campbell R.;
RT "Complex patterns of intragenic polymorphism at the PDGFA locus."
RL Hum. Genet. 105:452-459(1999).
DR EMBL; AJ243278; CAB45916.1; -.
FT NON_TER 1
FT NON_TER 11
SQ SEQUENCE 11 AA; 1331 MW; 7FB881F101E1F2D4 CRC64;

Query Match 42.0%; Score 21; DB 2; Length 11;
Best Local Similarity 50.0%; Pred. No. 3.9e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YHRVIX 7
Db 6 HHRSVK 11

RESULT 12
Q05403
ID Q05403 PRELIMINARY; PRT; 8 AA.
AC Q05403;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Orf 00915 protein (Fragment).
GN Name=orf 00915;
OS Saccharomyces cerevisiae (Baker's yeast).
OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
OC Saccharomycetales; Saccharomycetaceae; Saccharomycetes.
OX NCBI_TaxID=4932;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=FY1679;
RX MEDLINE=96021609; PubMed=8533473;
RA Zimstein E., Pearson B.M., Kalogeropoulos A., Schweizer M.;
RT "A 29.425 kb segment on the left arm of yeast chromosome XV contains more than twice as many unknown open reading frames."
RL Yeast 11:975-986(1995).
DR EMBL; X83121; CAA58183.1; -.
FT NON_TER 8
FT NON_TER 8
SQ SEQUENCE 8 AA; 879 MW; 7B5322D2C441E058 CRC64;

Query Match 40.0%; Score 20; DB 2; Length 8;
Best Local Similarity 60.0%; Pred. No. 1.8e+06;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 HRVIX 7
Db 3 HNVVK 7

RESULT 13
Q9TQV4
ID Q9TQV4 PRELIMINARY; PRT; 10 AA.
AC Q9TQV4;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Equus caballus pop-variant * transferrin (Equus caballus clone 7 transferrin) (Equus caballus pop-variant F1 transferrin) (Equus caballus pop-variant F2 transferrin) (Equus caballus pop-variant D transferrin) (Equus caballus pop-variant H2 transferrin) (Equus caballus pop-variant O transferrin) (Equus caballus pop-variant F3 transferrin) (Equus caballus pop-variant G transferrin) (Fragment).

Qy 3 YHRVIX 7
Db 3 HNVVK 7

OS Equus caballus (Horse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Perissodactyla; Equidae; Equus.
OX NCBI_TaxID=9796;
RN [1]
RP SEQUENCE FROM N.A.
RA Giffard J.M., Brandon R.B., Bell T.K.;
RL Submitted (SEP-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF185778; AAF05491.1; -.
DR EMBL; AF185770; AAF05483.1; -.
DR EMBL; AF185771; AAF05484.1; -.
DR EMBL; AF185772; AAF05485.1; -.
DR EMBL; AF185773; AAF05486.1; -.
DR EMBL; AF185774; AAF05487.1; -.
DR EMBL; AF185775; AAF05488.1; -.
DR EMBL; AF185776; AAF05489.1; -.
DR EMBL; AF185777; AAF05490.1; -.
FT NON_TER 1
FT NON_TER 1
SQ SEQUENCE 10 AA; 1188 MW; 6DF67DE9D1AEBDD8 CRC64;

Query Match 40.0%; Score 20; DB 2; Length 10;
Best Local Similarity 75.0%; Pred. No. 5.5e+03;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 YHRV 5
Db 7 FHRV 10

RESULT 14
Q9TT29
ID Q9TT29 PRELIMINARY; PRT; 12 AA.
AC Q9TT29;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Beta-globin (Fragment).
OS Saguinus oedipus (Cotton-top tamarin).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Platyrrhini; Callitrichidae; Saguinus.
OX NCBI_TaxID=9490;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Blood;
RX MEDLINE=2018801; PubMed=10723742;
RA Francino M.P., Ochman H.;
RT "Strand symmetry around the beta-globin origin of replication in primates."
RL Mol. Biol. Evol. 17:416-422(2000).
DR EMBL; AF205415; AAF23766.1; -.
FT NON_TER 1
FT NON_TER 1
SQ SEQUENCE 12 AA; 1251 MW; 07BC8AF8E8D72DD4 CRC64;

Query Match 40.0%; Score 20; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 6.6e+03;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KYH 3
Db 10 KYH 12

RESULT 15
Q9TT31
ID Q9TT31 PRELIMINARY; PRT; 12 AA.
AC Q9TT31;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Beta-globin (Fragment).
OS Callithrix jacchus (Common marmoset).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Platyrrhini; Callitrichidae; Callithrix.

OX NCBI_TaxID=9483;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Blood;
RX MEDLINE=20188801; PubMed=10723742;
RA Francino M.P.; Ochman H.;
RT "Strand symmetry around the beta-globin origin of replication in
primates.";
RL Mol. Biol. Evol. 17:416-422(2000).
DR EMBL; AF205413; AAF23764.1; -.
FT NON_TER 1
SQ SEQUENCE 12 AA; 1251 MW; 07BC8AFAE8D72DD4 CRC64;

Query Match 40.0%; Score 20; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 6.6e+03;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KYH 3
Db 10 KYH 12

Search completed: October 21, 2004, 07:26:50
Job time : 87 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
OM protein - protein search, using sw model
Run on: October 21, 2004, 07:04:19 ; Search time 83 Seconds
(without alignments)
38.898 Million cell updates/sec
Title: US-09-720-469A-40
Perfect score: 51
Sequence: 1 DYMIQGGDF 9
Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5
Searched: 2002273 seqs, 358729299 residues
Total number of hits satisfying chosen parameters: 497672
Minimum DB seq length: 0
Maximum DB seq length: 12
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
Database : A_Geneseq_23Sep04:.*
1: geneseqp1980s:.*
2: geneseqp1990s:.*
3: geneseqp2000s:.*
4: geneseqp2001s:.*
5: geneseqp2002s:.*
6: geneseqp2003as:.*
7: geneseqp2003bs:.*
8: geneseqp2004s:.*
Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	51	100.0	9	3	AAY69963 Human cyc
2	51	100.0	9	4	AAB46947 Human cyc
3	51	100.0	9	7	ADC17709 Modified
4	47	92.2	9	3	AAY69922 Human cyc
5	47	92.2	9	4	AAB46931 Human cyc
6	47	92.2	9	4	AAG68089 Antitumou
7	47	92.2	9	5	ABG79076 Human Cyp
8	47	92.2	9	6	ABR84374 Human Cyp
9	47	92.2	9	7	ADC17702 Cyclophil
10	47	92.2	9	8	ADG89642 Class I H
11	41	80.4	9	3	AAY69958 Human cyc
12	37	72.5	9	3	AAY69961 Human cyc
13	36	70.6	9	3	AAY69957 Human cyc
14	27.5	53.9	12	2	AAR91898 KGF-b min
15	27	52.9	9	2	AAR45361 Choline o
16	27	52.9	9	6	ABR16438 Human can
17	27	52.9	9	6	ABR16847 Human can
18	27	52.9	9	6	ABR16768 Human can
19	27	52.9	9	6	ABR16188 Human can
20	27	52.9	9	6	ABR16609 Human can
21	27	52.9	10	6	ABR17313 Human can
22	27	52.9	10	6	ABR16875 Human can
23	27	52.9	10	6	ABR16266 Human can
24	27	52.9	10	6	ABR16954 Human can
25	27	52.9	10	6	ABR16696 Human can

26	27	52.9	10	6	ABR16761 Human can
27	27	52.9	10	6	ABR16123 Human can
28	27	52.9	10	6	ABR16487 Human can
29	27	52.9	10	6	ABR17152 Human can
30	27	52.9	10	6	ABR16466 Human can
31	27	52.9	10	6	ABR16141 Human can
32	27	52.9	10	6	ABR16299 Human can
33	27	52.9	10	6	ABR16898 Human can
34	26	51.0	9	2	AAR72938 E. coli P
35	26	51.0	9	2	AAR72894 E. coli P
36	26	51.0	9	8	ADP49294 Natriuret
37	26	51.0	9	8	ADP49297 Natriuret
38	26	51.0	10	2	AAR72949 E. coli P
39	26	51.0	10	2	AAR72905 E. coli P
40	26	51.0	10	4	AAM42948 Mycopiasm
41	26	51.0	12	2	AAW21441 HSV glyco
42	26	51.0	12	6	AAO31067 Human F8
43	25	49.0	9	2	AAR20729 Pancreas-
44	25	49.0	9	3	AAY51905 Elastase
45	25	49.0	9	4	AAM22987 HIV pepti

ALIGNMENTS

RESULT 1
AAY69963
ID AAY69963 standard; peptide; 9 AA.
XX
AC AAY69963;
XX
DT 11-APR-2000 (first entry)
XX
DE Human cyclophilin B peptide fragment #43.
XX
KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX
OS Homo sapiens.
XX
PN WO9967288-A1.
XX
PD 29-DEC-1999.
XX
PF 24-JUN-1999; 99WO-JP003360.
XX
PR 25-JUN-1998; 98JP-00178449.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
PA (ITOH/) ITOH K.
PI Itoh K, Gomi S;
XX
XX WPI; 2000-116932/10.
XX
PT Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
XX
PS Claim 10; Page 60; 64pp; Japanese.
XX
CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;

Query Match 100.0%; Score 51; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DYMIQGGDF 9
|||||

```
Db          1 DYMIQGGDF 9

RESULT 2
AAB46947
ID  AAB46947 standard; peptide; 9 AA.
XX
AC  AAB46947;
XX
DT  04-MAY-2001 (first entry)
XX
DE  Human cyclophilin B derived tumor antigenic peptide SEQ ID 33.
XX
KW  Tumor antigenic peptide; interferon; IFN; antigen-specific T cell;
KW  virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell;
KW  viral infectious disease; cyclophilin B; human.
XX
OS  Homo sapiens.
XX
PN  EP1074267-A1.
XX
PD  07-FEB-2001.
XX
PF  24-JUL-2000; 2000EP-00306263.
XX
PR  22-JUL-1999; 99JP-00207687.
XX
PA  (SUMU ) SUMITOMO PHARM CO LTD.
XX
PI  Takasu H, Gotoh M, Yamaoka T;
XX
DR  WPI; 2001-193144/20.
XX
PT  Use of antigenic proteins, peptides, interferon or their encoding DNA, in
PT  the manufacture of an agent for the induction of antigen-specific T
PT  cells.
XX
PS  Disclosure; Page 20; 25pp; English.
XX
CC  This invention describes the novel use of interferons (IFNs) or DNAs
CC  capable of expressing the interferons and/or antigenic proteins (AP),
CC  antigenic peptides derived from the proteins or DNAs capable of
CC  expressing the antigenic proteins or peptides, in the manufacture of an
CC  agent for induction of antigen-specific T cells. The products of the
CC  invention have virucide and cytostatic activity and can be used for gene
CC  therapy or as inducers of antigen-specific T cells. The action of
CC  interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic
CC  T cell (CTL) by administering an antigenic peptide in an incomplete
CC  Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or
CC  DNA encoding IFNs) are useful in the manufacture of a medicament for
CC  inducing antigen-specific T cells in an individual who has been
CC  administered with AP (or DNA encoding AP) or vice versa. The medicament
CC  is useful for the treatment or prophylaxis of a tumor or a viral
CC  infectious disease
XX
SQ  Sequence 9 AA;

Query Match      100.0%; Score 51; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DYMIQGGDF 9
        |||
Db      1 DYMIQGGDF 9

RESULT 3
ADC17709
ID  ADC17709 standard; peptide; 9 AA.
XX
AC  ADC17709;
XX
DT  18-DEC-2003 (first entry)
XX
DE  Human cyclophilin B peptide fragment #2.
XX
KW  Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW  HLA antigen; diagnosis; tumour; therapy.
XX
OS  Homo sapiens.
XX
PN  WO9967288-A1.
XX
PD  29-DEC-1999.

XX DE XX
XX KW XX
XX KW XX
XX KW XX
XX KW XX
XX OS XX
XX PN XX
XX PD XX
XX PF XX
XX PR XX
XX PA XX
XX PI XX
XX DR XX
XX WPI; 2003-300831/29.
XX PT Desensitizers or allergic reaction suppressors containing peptides
XX PT originating from the same antigenic substances as reaction-inducing
XX PT substances, useful for preventing or treating type I allergic diseases
XX PT and in cancer vaccines.
XX XX
XX PS Claim 8; SEQ ID NO 9; 49pp; Japanese.
XX XX
XX CC The invention relates to allergic reaction suppressors, comprising a
XX CC peptide which originates from the same antigenic substance as the
XX CC antigenic substance inducing the (peptide-originated) allergic reaction,
XX CC and containing an epitope different from the epitope participating in the
XX CC induction of the allergic reaction and yet does not induce the allergic
XX CC reaction. The desensitizers or allergic reaction suppressors are useful
XX CC for treating and preventing type I allergic diseases and in cancer
XX CC vaccines for preventing or treating cancer. The allergic reaction or
XX CC suppressors are also useful for suppressing an allergic reaction to
XX CC reducing immunoglobulin E antibody production, and for desensitization to
XX CC antigens. This sequence represents a peptide used in the invention and
XX CC corresponds to amino acids 91-99 of the cyclophilin B protein with the
XX CC Phe at position 92 replaced by a Tyr.
XX
SQ Sequence 9 AA;

Query Match      100.0%; Score 51; DB 7; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DYMIQGGDF 9
        |||
Db      1 DYMIQGGDF 9

RESULT 4
AAY69922
ID  AAY69922 standard; peptide; 9 AA.
XX
AC  AAY69922;
XX
DT  11-APR-2000 (first entry)
XX
DE  Human cyclophilin B peptide fragment #2.
XX
KW  Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW  HLA antigen; diagnosis; tumour; therapy.
XX
OS  Homo sapiens.
XX
PN  WO9967288-A1.
XX
PD  29-DEC-1999.
```

XX 24-JUN-1999; 99WO-JP003360.
PF 25-JUN-1998; 98JP-00178449.
PR (SUMU) SUMITOMO PHARM CO LTD.
XX (ITOY/) ITOH K.
PA Itoh K, Gomi S;
PI WPI; 2000-116932/10.
XX Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.
PT Claim 4; Page 49; 64pp; Japanese.
XX This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX
SQ Sequence 9 AA;
Query Match 92.2%; Score 47; DB 3; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 DYMIQGGDF 9
Db 1 DFMIQGGDF 9
RESULT 5
AAB46931
ID AAB46931 standard; peptide; 9 AA.
XX
AC AAB46931;
XX
DT 04-MAY-2001 (first entry)
XX
DE Human cyclophilin B derived tumor antigenic peptide SEQ ID 17.
XX
KW Tumor antigenic peptide; interferon; IFN; antigen-specific T cell;
KW virucide; cytostatic; gene therapy; IFN-alpha; cytotoxic T cell;
KW viral infectious disease; cyclophilin B; human.
XX
OS Homo sapiens.
XX
PN EP1074267-A1.
XX
PD 07-FEB-2001.
XX
PF 24-JUL-2000; 2000EP-00306263.
XX
PR 22-JUL-1999; 99JP-00207687.
XX
PA (SUMU) SUMITOMO PHARM CO LTD.
XX
PI Takasu H, Gotoh M, Yamaoka T;
XX
DR WPI; 2001-193144/20.
XX
PT Use of antigenic proteins, peptides, interferon or their encoding DNA, in
PT the manufacture of an agent for the induction of antigen-specific T
PT cells.
XX
PS Disclosure; Page 15; 25pp; English.
XX
CC This invention describes the novel use of interferons (IFNs) or DNAs
CC capable of expressing the interferons and/or antigenic proteins (AP),
CC antigenic peptides derived from the proteins or DNAs capable of
CC expressing the antigenic proteins or peptides, in the manufacture of an

CC agent for induction of antigen-specific T cells. The products of the
CC invention have virucide and cytostatic activity and can be used for gene
CC therapy or as inducers of antigen-specific T cells. The action of
CC interferon-alpha (IFN-alpha) in a system for inducing specific cytotoxic
CC T cell (CTL) by administering an antigenic peptide in an incomplete
CC Freund's adjuvant (IFA) emulsion preparation form was evaluated. IFNs (or
CC DNA encoding IFNs) are useful in the manufacture of a medicament for
CC inducing antigen-specific T cells in an individual who has been
CC administered with AP (or DNA encoding AP) or vice versa. The medicament
CC is useful for the treatment or prophylaxis of a tumor or a viral
CC infectious disease
XX
SQ Sequence 9 AA;
Query Match 92.2%; Score 47; DB 4; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 DYMIQGGDF 9
Db 1 DFMIQGGDF 9
RESULT 6
AAG68089
ID AAG68089 standard; peptide; 9 AA.
XX
AC AAG68089;
XX
DT 17-DEC-2001 (first entry)
XX
DE Antitumour peptide cyclophilin B 91-99.
XX
KW Antitumour; cancer; cancer cell recognition; antigenic; CTL; lck; src;
KW tumour specific cytotoxic T lymphocyte; anticancer; SART-1; SART-3;
KW cyclophilin B gene; HLA-A2402.
XX
OS Homo sapiens.
XX
PN JP2001245675-A.
XX
PD 11-SEP-2001.
XX
PF 25-DEC-2000; 2000JP-00393047.
XX
PR 28-DEC-1999; 99JP-00374322.
XX
PA (ITOY/) ITO Y.
XX
DR WPI; 2001-610076/70.
XX
PT New peptides for recognizing cancer cells with tumor specific cytotoxic T
PT lymphocytes and for treating cancer.
XX
PS Claim 8; Page 2; 14pp; Japanese.
XX
CC The present invention describes peptides recognising cancer cells with
CC tumour specific cytotoxic T lymphocytes (CTL). The peptides recognising
CC cancer cells with tumour specific CTLs are selected from: (1) peptides of
CC sequences (AAG68066 to AAG68069); (2) peptides containing the above
CC mentioned sequences; (3) peptides having 70 % or more of homogeneity with
CC the above mentioned sequences; and (4) peptides with one or more deleted,
CC substituted, added or inserted amino acid(s) of the above mentioned
CC sequences, particularly those having recognising property due to HLA-
CC A2402 binding CTL, especially having at least 5 amino acids, used for
CC medicine, particularly anticancer agents, derived from antitumour
CC antigenic peptides of lck, src family, SART-1, SART-3 or cyclophilin B
CC genes. The antitumour peptides have cytostatic activities. The peptides
CC are used for the treatment of cancer. The peptides cause activation of
CC CTL in cancer patients. The present sequence represents a peptide from
XX the present invention
SQ Sequence 9 AA;

Query Match 92.2%; Score 47; DB 4; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DYMIQGGDF 9
|:|||||
Db 1 DFMIQGGDF 9

RESULT 7
ABG79076
ID ABG79076 standard; peptide; 9 AA.

XX AC ABG79076;

DT 15-NOV-2002 (first entry)

DE Human Cyp-B class I HLA widely expressed antigen peptide #2.

KW Cell penetrating peptide; cancer; tumour; melanoma; thymoma; antigen;
KW lymphoma; sarcoma; lung cancer; non-Hodgkin's lymphoma; leukaemia;
KW Hodgkin's lymphoma; uterine cancer; cervical cancer; bladder cancer;
KW kidney cancer; adenocarcinoma; breast cancer; prostate cancer;
KW ovarian cancer; pancreatic cancer; epitope; vaccine; dendritic cell;
KW tumour infiltrating lymphocyte; TIL; human leukocyte antigen; HLA;
KW cytostatic; human.

XX OS Homo sapiens.

XX PN WO200264057-A2.

XX PD 22-AUG-2002.

XX PF 15-FEB-2002; 2002WO-US005212.

XX PR 15-FEB-2001; 2001US-0268687P.

XX PA (BAYU) BAYLOR COLLEGE MEDICINE.

XX PI Wang R;

XX DR WPI; 2002-627577/67.

XX PT Novel composition for treating a disease in an animal, comprises an
immune effector cell and cell penetrating peptide associated with an
antigen or antibody.

XX PS Disclosure; Page 17; 61pp; English.

XX CC The invention relates to a composition (I) comprising an immune effector
cell and a cell penetrating peptide (CPP) associated with an antigen or
antibody. Also included are (1) a vaccine comprising (I), CPP associated
with an antigen, and a pharmaceutically acceptable carrier and (2)
preparing a composition for a disease, by providing (I) and CPP
associated with an antigen for disease, and introducing the antigen-
associated CPP to (I), where antigen enters into the cell. The antigens
are, for example, tumour antigen derived epitopes recognised by tumour
infiltrating lymphocytes (TIL) of HLA (human leukocyte antigen) class I
or II. The composition is useful for enhancing immunity in an animal to a
disease, by administering a mature dendritic cell comprising CPP
associated with an antigen to disease, to the animal, such that following
the administration, animal is protected from disease, where the animal
comprises both CD4+ and CD8+ T cells. It is also useful for treating a
disease (e.g. cancer, tumour, melanoma, thymoma, lymphoma, sarcoma, lung
cancer, non-Hodgkin's lymphoma, leukaemia, Hodgkin's lymphoma, uterine
cancer, cervical cancer, bladder cancer, kidney cancer, adenocarcinoma,
breast cancer, prostate cancer, ovarian cancer and pancreatic cancer).
The animal is further subjected to a cancer treatment including surgery,
radiation, chemotherapy or gene therapy. The administration of (I),
preferably dendritic cell is prior to, subsequent to or concurrent with,
the cancer treatment. The present sequence is a tumour antigen derived
epitope for inclusion in the composition of the invention

XX SQ

Sequence 9 AA;

Query Match 92.2%; Score 47; DB 5; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DYMIQGGDF 9
|:|||||
Db 1 DFMIQGGDF 9

RESULT 8
ABR84374

ID ABR84374 standard; peptide; 9 AA.

XX AC ABR84374;

DT 06-NOV-2003 (first entry)

DE Human CypB HLA-A24 epitope, SEQ ID NO:24.

XX KW Antigen specific T-cell; detection; diagnosis; cancer specific T-cell;
KW cancer; tumour; cervical cancer; prostate cancer; cellular immunity;
KW immune therapy; cytostatic; immunostimulant; vaccine; antigenic peptide;
KW human; human leukocyte antigen; HLA-A24 epitope.

XX OS Homo sapiens.

XX PN JP2002365286-A.

XX PD 18-DEC-2002.

XX PF 18-SEP-2001; 2001JP-00283413.

XX PR 13-NOV-2000; 2000JP-00345094.

XX PA (ITOY/) ITO Y.

XX DR WPI; 2003-508315/48.

XX PT A detection method of antigen specific T-cells, comprises the use of
plural antigenic peptides, useful in semi-quantitative determination of
cancer specific T-cell frequencies and for monitoring cellular immunity.

XX PS Example 8; Page 10; 18pp; Japanese.

XX CC The invention relates to a method for the detection of antigen specific T
-cells in a blood sample involving the use of a plurality of antigenic
peptides. The method comprises sampling of peripheral blood monocytes;
stimulation of the collected peripheral blood monocytes with antigens
without direct use of antigen presenting cells; and detection of T-cells
specific to the antigen in the stimulated monocytes. The method is
particularly used for the detection of cancer as it can be used in semi-
quantitative determination of cancer specific T-cells. It can also be
used for cancer vaccine therapy for patients with cervical or prostate
cancer. The method can additionally be used to monitor of cellular
immunity and cancer immune therapy by detection of specific T-cell
frequencies. Sequences ABR84367-ABR84380 represent HLA-A24 (human
leukocyte antigen) peptides of human origin used in an example from the
invention

XX SQ

Sequence 9 AA;

Query Match 92.2%; Score 47; DB 6; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DYMIQGGDF 9
|:|||||
Db 1 DFMIQGGDF 9

RESULT 9
ADCl7702
ID ADC17702 standard; peptide; 9 AA.
XX AC ADC17702;
XX DT 18-DEC-2003 (first entry)
XX DE Cyclophilin B protein amino acids 91-99.
XX KW cytostatic; antiallergic; vaccine; allergic reaction suppressor; antigen;
KW allergy; epitope; cancer; immunoglobulin E antibody; desensitization;
KW cyclophilin B.
XX OS Synthetic.
XX PN WO2003020306-A1.
XX PD 13-MAR-2003.
XX PF 28-AUG-2002; 2002WO-JP008641.
XX PR 29-AUG-2001; 2001JP-00260046.
XX PA (ITOH/) ITOH K.
XX PI Itoh K, Yamada A;
XX DR WPI; 2003-300831/29.
XX PT Desensitizers or allergic reaction suppressors containing peptides
PT originating from the same antigenic substances as reaction-inducing
PT substances, useful for preventing or treating type I allergic diseases
PT and in cancer vaccines.
XX PS Claim 8; SEQ ID NO 2; 49pp; Japanese.
XX CC The invention relates to allergic reaction suppressors, comprising a
CC peptide which originates from the same antigenic substance as the
CC antigenic substance inducing the (peptide-originated) allergic reaction,
CC and containing an epitope different from the epitope participating in the
CC induction of the allergic reaction and yet does not induce the allergic
CC reaction. The desensitizers or allergic reaction suppressors are useful
CC for treating and preventing type I allergic diseases and in cancer
CC vaccines for preventing or treating cancer. The allergic reaction
CC suppressors are also useful for suppressing an allergic reaction or
CC reducing immunoglobulin E antibody production, and for desensitization to
CC antigens. This sequence represents a peptide used in the invention and
CC corresponds to amino acids 91-99 of the cyclophilin B protein.
XX SQ Sequence 9 AA;
Query Match 92.2%; Score 47; DB 7; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 DYMIQGGDF 9
Db 1 DFMIQGGDF 9
RESULT 10
ADG89642
ID ADG89642 standard; peptide; 9 AA.
XX AC ADG89642;
XX DT 11-MAR-2004 (first entry)
XX DE Class I HLA-restricted widely expressed antigen #7.
XX KW metastatic cancer cell differentiation; mutated fibronectin;
KW metastatic cancer; class I HLA-restricted; widely antigen.

XX Unidentified.
XX PN WO2003100027-A2.
XX PD 04-DEC-2003.
XX PF 28-MAY-2003; 2003WO-US016736.
XX PR 28-MAY-2002; 2002US-0383530P.
XX PA (BAYU) BAYLOR COLLEGE MEDICINE.
XX PI Wang R;
XX DR WPI; 2004-035134/03.
XX PT Identifying a cell that differentiates into a metastatic cancer cell,
PT useful for preventing metastatic cancer, comprises identifying a mutated
PT fibronectin in the cell.
XX PS Disclosure; SEQ ID NO 85; 137pp; English.
XX CC The invention comprises a method for identifying a cell that will
CC differentiate into a metastatic cancer cell, the method involves
CC identifying a mutated fibronectin in the cell. The method of the
CC invention is useful for preventing metastatic cancer. The present amino
CC acid sequence represents a Class I HLA-restricted widely expressed
CC antigen.
XX SQ Sequence 9 AA;
Query Match 92.2%; Score 47; DB 8; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 DYMIQGGDF 9
Db 1 DFMIQGGDF 9
RESULT 11
AAy69958
ID AAy69958 standard; peptide; 9 AA.
XX AC AAy69958;
XX DT 11-APR-2000 (first entry)
XX DE Human cyclophilin B peptide fragment #38.
XX KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
KW HLA antigen; diagnosis; tumour; therapy.
XX OS Homo sapiens.
XX PN WO9967288-A1.
XX PD 29-DEC-1999.
XX PF 24-JUN-1999; 99WO-JP003360.
XX PR 25-JUN-1998; 98JP-00178449.
XX PA (SUMU) SUMITOMO PHARM CO LTD.
XX PA (ITOH/) ITOH K.
XX PI Itoh K, Gomi S;
XX DR WPI; 2000-116932/10.
XX PT Tumor antigen peptides derived from cyclophilin B for treatment and
PT diagnosis of tumors.


```
XX PS Claim 4; Page 61; 64pp; Japanese.
XX CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX SQ Sequence 9 AA;
Query Match 80.4%; Score 41; DB 3; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 DYMIQGGD 8
Db 1 DFMIQGGD 8
RESULT 12
AAY69961
ID AAY69961 standard; peptide; 9 AA.
XX AC AAY69961;
XX DT 11-APR-2000 (first entry)
XX DE Human cyclophilin B peptide fragment #41.
XX KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
XX KW HLA antigen; diagnosis; tumour; therapy.
XX OS Homo sapiens.
XX EN WO9967288-A1.
XX PD 29-DEC-1999.
XX PF 24-JUN-1999; 99WO-JP003360.
XX PR 25-JUN-1998; 98JP-00178449.
XX PA (SUMU) SUMITOMO PHARM CO LTD.
XX PA (ITOH/) ITOH K.
XX PI Itoh K, Gomi S;
XX DR WPI; 2000-116932/10.
XX PT Tumor antigen peptides derived from cyclophilin B for treatment and
XX PT diagnosis of tumors.
XX PS Claim 10; Page 60; 64pp; Japanese.
XX CC This sequence represents a cyclophilin B peptide of the invention. The
XX CC peptides are tumour antigen peptides derived from cyclophilin B, that
XX CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
XX CC peptides are used for the treatment and diagnosis of tumours
XX SQ Sequence 9 AA;
Query Match 72.5%; Score 37; DB 3; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 DYMIQGGD 8
Db 1 DFMIQGGD 8
RESULT 13
AAY69957
ID AAY69957 standard; peptide; 9 AA.
XX AC AAY69957;
XX DT 11-APR-2000 (first entry)
XX DE Human cyclophilin B peptide fragment #37.
XX KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
XX KW HLA antigen; diagnosis; tumour; therapy.
XX OS Homo sapiens.
XX EN WO9967288-A1.
XX PD 29-DEC-1999.
XX PF 24-JUN-1999; 99WO-JP003360.
XX PR 25-JUN-1998; 98JP-00178449.
XX PA (SUMU) SUMITOMO PHARM CO LTD.
XX PA (ITOH/) ITOH K.
XX PI Itoh K, Gomi S;
XX DR WPI; 2000-116932/10.
XX PT Tumor antigen peptides derived from cyclophilin B for treatment and
XX PT diagnosis of tumors.
XX PS Claim 4; Page 61; 64pp; Japanese.
XX CC This sequence represents a cyclophilin B peptide of the invention. The
XX CC peptides are tumour antigen peptides derived from cyclophilin B, that
XX CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
XX CC peptides are used for the treatment and diagnosis of tumours
XX SQ Sequence 9 AA;
Query Match 70.6%; Score 36; DB 3; Length 9;
Best Local Similarity 75.0%; Pred. No. 1.7e+06;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 2 YMIQGGDF 9
Db 2 FMCQGGDF 9
RESULT 14
AAR91898
ID AAR91898 standard; protein; 12 AA.
XX AC AAR91898;
XX DT 03-DEC-1996 (first entry)
XX DE KGF-b minor component N-terminal fragment.
XX KW Keratinocyte growth factor; KGF; Cys1; Cys15; deletion; substitution;
XX KW Met-KGF analog; stimulate; non-fibroblast epithelial cell; antibody;
XX KW detection; purification; adnexal structure; hair follicle; sweat gland;
XX KW sebaceous gland; burn; gastric ulcer; duodenal ulcer; liver function;
XX KW hepatic cirrhosis; ss.
XX OS Synthetic.
XX PN WO9611949-A2.
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XX PS Claim 4; Page 61; 64pp; Japanese.
XX CC This sequence represents a cyclophilin B peptide of the invention. The
CC peptides are tumour antigen peptides derived from cyclophilin B, that
CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
CC peptides are used for the treatment and diagnosis of tumours
XX SQ Sequence 9 AA;
Query Match 80.4%; Score 41; DB 3; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.7e+06;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 DYMIQGGD 8
Db 1 DFMIQGGD 8
RESULT 12
AAY69961
ID AAY69961 standard; peptide; 9 AA.
XX AC AAY69961;
XX DT 11-APR-2000 (first entry)
XX DE Human cyclophilin B peptide fragment #41.
XX KW Cyclophilin B; human; tumour antigen peptide; cytotoxic T-cell; CTL;
XX KW HLA antigen; diagnosis; tumour; therapy.
XX OS Homo sapiens.
XX EN WO9967288-A1.
XX PD 29-DEC-1999.
XX PF 24-JUN-1999; 99WO-JP003360.
XX PR 25-JUN-1998; 98JP-00178449.
XX PA (SUMU) SUMITOMO PHARM CO LTD.
XX PA (ITOH/) ITOH K.
XX PI Itoh K, Gomi S;
XX DR WPI; 2000-116932/10.
XX PT Tumor antigen peptides derived from cyclophilin B for treatment and
XX PT diagnosis of tumors.
XX PS Claim 4; Page 61; 64pp; Japanese.
XX CC This sequence represents a cyclophilin B peptide of the invention. The
XX CC peptides are tumour antigen peptides derived from cyclophilin B, that
XX CC recognise cytotoxic T-cells (CTL) which bind to the HLA antigen. The
XX CC peptides are used for the treatment and diagnosis of tumours
XX SQ Sequence 9 AA;
Query Match 70.6%; Score 36; DB 3; Length 9;
Best Local Similarity 75.0%; Pred. No. 1.7e+06;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 2 YMIQGGDF 9
Db 2 FMCQGGDF 9
RESULT 14
AAR91898
ID AAR91898 standard; protein; 12 AA.
XX AC AAR91898;
XX DT 03-DEC-1996 (first entry)
XX DE KGF-b minor component N-terminal fragment.
XX KW Keratinocyte growth factor; KGF; Cys1; Cys15; deletion; substitution;
XX KW Met-KGF analog; stimulate; non-fibroblast epithelial cell; antibody;
XX KW detection; purification; adnexal structure; hair follicle; sweat gland;
XX KW sebaceous gland; burn; gastric ulcer; duodenal ulcer; liver function;
XX KW hepatic cirrhosis; ss.
XX OS Synthetic.
XX PN WO9611949-A2.
```

XX 25-APR-1996.
XX 12-OCT-1995; 95WO-IB0000971.
XX 13-OCT-1994; 94US-00323340.
XX 13-OCT-1994; 94US-00323475.
XX 07-JUN-1995; 95US-00487825.
XX (AMGE-) AMGEN INC.
XX Morris CF, Kenney WC, Chen B, Hsu EW;
XX WPI; 1996-221944/22.
XX Keratinocyte growth factor analogues with modified N-terminal region -
PT stimulate prodn. of non-fibroblast epithelial cells and are useful e.g.
PT to treat gastric and duodenal ulcers.
XX Example 3; Page 52; 118pp; English.
XX The sequences given in AAR91897-98 represent the N-terminal peptides from
CC the major and minor components, KGF-a and KGF-b, of recombinantly
CC expressed keratinocyte growth factor (KGF). Interestingly the N-terminal
CC fragment of KGF-b indicates that it is an N-terminally truncated form of
CC KGF which is proteolytically cleaved at the Arg23-Ser24 peptide bond. KGF
CC may be used in the construction of KGF analogues (see also AAR91865-96).
CC These analogues have up to the first 24 N-terminal amino acids modified
CC so that Cys1 and Cys15 are deleted or substituted. Deleting or
CC substituting the Cys residues at positions 1 and 15 of native KGF
CC produces a KGF analogue which has substantially improved stability. These
CC KGF analogues can be used to stimulate the production of non-fibroblast
CC epithelial cells. They are useful as therapeutic, diagnostic and research
CC agents and in the generation of antibodies for the detection or
CC purification of native KGF. The KGF analogues may be applied to tissues
CC with damage to, or insufficient numbers of, non-fibroblast epithelium
CC cells. This includes the stimulation, proliferation and differentiation
CC of adnexal structures, e.g. hair follicles, sweat glands, and sebaceous
CC glands in burns patients, treating gastric and duodenal ulcers, and
CC increasing liver function to treat or prevent e.g. hepatic cirrhosis
XX
SQ Sequence 12 AA;
Query Match 53.9%; Score 27.5; DB 2; Length 12;
Best Local Similarity 75.0%; Pred. No. 2.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 1; Gaps 1;
QY 1 DYMIQGG 8
||| :|||
Db 3 DYM-EGGD 9
RESULT 15
AAR45361
ID AAR45361 standard; peptide; 9 AA.
XX
AC AAR45361;
XX
DT 16-OCT-2003 (revised)
DT 04-JUL-1994 (first entry)
XX
DE Choline oxidase N-terminal.
XX
KW Preparation; high; purity; yield; chemical analysis; esterase;
KW determination; phospholipid.
XX
OS Saccharomonospora glauca.
XX
PN JP05317056-A.
XX
PD 03-DEC-1993.
XX
PF 22-JAN-1993; 93JP-00008835.

XX 22-JAN-1992; 92JP-00009256.
XX (TAKE) TAKEDA CHEM IND LTD.
XX WPI; 1994-011021/02.
XX DNA fragment for choline oxidase prepn., for high purity and high yield -
PT comprises gene coding choline oxidase prepd. by culturing microbe
PT transformed by recombinant plasmid for choline chemical analysis and
PT choline esterase determ.
XX
PS Claim 5; Page 2; 8pp; Japanese.
XX
CC The sequence is that of the N-terminal of choline oxidase. Choline
CC oxidase is useful for chemical analysis of choline, determination of
CC choline esterase contained in serum and determination of phospholipid.
CC (Updated on 16-OCT-2003 to standardise OS field)
XX
SQ Sequence 9 AA;
Query Match 52.9%; Score 27; DB 2; Length 9;
Best Local Similarity 57.1%; Pred. No. 1.7e+06;
Matches 4; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1 DYMIQGG 7
||| :|||
Db 3 DYVVVGG 9
Search completed: October 21, 2004, 07:21:04
Job time : 84 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:13:10 ; Search time 21.5 Seconds
(without alignments)
27.761 Million cell updates/sec

Title: US-09-720-469A-40
Perfect score: 51
Sequence: 1 DYMIQGGDF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 130155

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	25	49.0	12	2	US-08-406-330-75
3	25	49.0	12	2	US-08-556-597-75
4	24	47.1	8	2	US-08-459-568-75
5	24	47.1	8	2	US-08-399-411-75
6	24	47.1	8	3	US-08-516-859A-75
7	24	47.1	8	3	US-09-586-472-75
8	24	47.1	8	4	US-09-528-706-75
9	24	47.1	10	3	US-08-765-953-8
10	24	47.1	10	6	5196404-18
11	24	47.1	10	6	5433940-25
12	24	47.1	12	4	US-09-846-350A-1
13	23.5	46.1	11	1	US-07-620-426B-19
14	23.5	46.1	11	1	US-07-662-007B-19
15	23.5	46.1	11	1	US-07-824-247-19
16	23.5	46.1	11	3	US-08-470-204A-19
17	23	45.1	8	1	US-08-487-860-62
18	23	45.1	10	1	US-08-658-130-21
19	23	45.1	10	5	PCT-US96-08723-21
20	23	45.1	12	3	US-09-188-579-51
21	23	45.1	12	3	US-09-329-350-27
22	23	45.1	12	3	US-09-315-444-51
23	23	45.1	12	4	US-09-721-362-51
24	23	45.1	12	4	US-09-752-165-71
25	23	45.1	12	4	US-08-841-636A-27
26	22	43.1	8	1	US-08-266-514-17
27	22	43.1	8	2	US-08-654-604-17

28	22	43.1	9	1	US-08-215-805A-7	Sequence 7, Appli
29	22	43.1	9	1	US-08-215-805A-52	Sequence 52, Appl
30	22	43.1	9	1	US-08-215-805A-58	Sequence 58, Appl
31	22	43.1	9	2	US-08-637-759B-444	Sequence 444, App
32	22	43.1	9	3	US-08-871-355A-444	Sequence 444, App
33	22	43.1	9	3	US-09-201-945-444	Sequence 444, App
34	22	43.1	11	3	US-09-026-276-23	Sequence 23, Appl
35	22	43.1	11	4	US-09-964-201A-23	Sequence 23, Appl
36	22	43.1	12	1	US-08-082-849B-15	Sequence 15, Appl
37	22	43.1	12	4	US-09-785-921A-13	Sequence 13, Appl
38	22	43.1	12	5	PCT-US94-01624-15	Sequence 15, Appl
39	21.5	42.2	9	1	US-08-410-941-17	Sequence 17, Appl
40	21.5	42.2	9	1	US-08-468-546-17	Sequence 17, Appl
41	21.5	42.2	9	2	US-08-468-547-17	Sequence 17, Appl
42	21.5	42.2	9	2	US-08-467-937-17	Sequence 17, Appl
43	21.5	42.2	9	3	US-09-074-950-17	Sequence 17, Appl
44	21.5	42.2	9	4	US-09-573-068-17	Sequence 17, Appl
45	21.5	42.2	12	1	US-08-410-941-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1
US-08-457-172-1
; Sequence 1, Application US/08457172
; Patent No. 5622837
; GENERAL INFORMATION:
; APPLICANT: Hans Scheefers, Ursula Scheefers-Borchel and
; APPLICANT: Andreas Sziegoleit
; TITLE OF INVENTION: PANCREAS ELASTASE 1-SPECIFIC ANTIBODY, A PROCESS FOR
; TITLE OF INVENTION: OBTAINING IT, AND A TEST KIT CONTAINING SUCH ANTIBODY
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham
; STREET: 30 Rockefeller Plaza
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10112
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.24
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/457,172
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/220,395
; FILING DATE:
; APPLICATION NUMBER: US 07/969,173
; FILING DATE: 29-MAR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 42883/JPW/AJM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 977-9550
; TELEFAX: (212) 977-9809
; TELEX: 422523 COOP UI
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: homo sapien
; CELL TYPE: pancreatic

US-08-457-172-1

Query Match 49.0%; Score 25; DB 1; Length 9;
Best Local Similarity 66.7%; Pred. No. 3.8e+05;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 MIOGGD 8
Db 2 MVAGGD 7

RESULT 2
US-08-406-330-75
; Sequence 75, Application US/08406330
; Patent No. 5817748
; GENERAL INFORMATION:
; APPLICANT: Miller, Jonathan L.
; APPLICANT: Lyle, Vicki A.
; TITLE OF INVENTION: MIMOTOPES AND ANTI-MIMOTOPES OF
; TITLE OF INVENTION: HUMAN PLATELET GLYCOPROTEIN Ib/IX
; NUMBER OF SEQUENCES: 81
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: USA
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/406,330
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Timian, Susan J.
; REGISTRATION NUMBER: 34,103
; REFERENCE/DOCKET NUMBER: 20884/100
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1636
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-406-330-75

Query Match 49.0%; Score 25; DB 2; Length 12;
Best Local Similarity 37.5%; Pred. No. 1.6e+02;
Matches 3; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2 YMIQGGDF 9
Db 1 FVVRGGTF 8

RESULT 3
US-08-556-597-75
; Sequence 75, Application US/08556597
; Patent No. 5877155
; GENERAL INFORMATION:
; APPLICANT: Miller, Jonathan L.
; APPLICANT: Lyle, Vicki A.
; TITLE OF INVENTION: MIMOTOPES AND ANTI-MIMOTOPES OF
; TITLE OF INVENTION: HUMAN PLATELET GLYCOPROTEIN Ib/IX
; NUMBER OF SEQUENCES: 173
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: USA
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/556,597
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/406,330
; FILING DATE: 17-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Timian, Susan J.
; REGISTRATION NUMBER: 34,103
; REFERENCE/DOCKET NUMBER: 20884/101
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1636
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-556-597-75

Query Match 49.0%; Score 25; DB 2; Length 12;
Best Local Similarity 37.5%; Pred. No. 1.6e+02;
Matches 3; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2 YMIQGGDF 9
Db 1 FVVRGGTF 8

RESULT 4
US-08-459-568-75
; Sequence 75, Application US/08459568
; Patent No. 5811304
; GENERAL INFORMATION:
; APPLICANT: Huang, Shi
; TITLE OF INVENTION: Retinoblastoma Protein - Interacting
; TITLE OF INVENTION: Zinc Finger Proteins
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/459,568
; FILING DATE: 02-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/399,411
; FILING DATE: 06-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815

; REFERENCE/DOCKET NUMBER: P-LJ 1264
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-459-568-75

Query Match 47.1%; Score 24; DB 2; Length 8;
Best Local Similarity 50.0%; Pred. No. 3.8e+05;
Matches 3; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 3 MIQGGD 8
Db 3 LLEGGD 8

RESULT 5
US-08-399-411-75
; Sequence 75, Application US/08399411
; Patent No. 5831008
; GENERAL INFORMATION:
; APPLICANT: Huang, Shi
; TITLE OF INVENTION: Retinoblastoma Protein - Interacting
; Zinc Finger Proteins
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/399,411
; FILING DATE: 06-MAR-1995
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 1264

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-399-411-75

Query Match 47.1%; Score 24; DB 2; Length 8;
Best Local Similarity 50.0%; Pred. No. 3.8e+05;
Matches 3; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 3 MIQGGD 8
Db 3 LLEGGD 8

RESULT 6
US-08-516-859A-75
; Sequence 75, Application US/08516859A
; Patent No. 6069231
; GENERAL INFORMATION:

; APPLICANT: Huang, Shi
; TITLE OF INVENTION: Retinoblastoma Protein - Interacting
; Zinc Finger Proteins
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/516,859A
; FILING DATE: 18-AUG-1995
; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/399,411
; FILING DATE: 06-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/292,683
; FILING DATE: 18-AUG-1994

; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 1776
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949

; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-516-859A-75

Query Match 47.1%; Score 24; DB 3; Length 8;
Best Local Similarity 50.0%; Pred. No. 3.8e+05;
Matches 3; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 3 MIQGGD 8
Db 3 LLEGGD 8

RESULT 7
US-09-586-472-75
; Sequence 75, Application US/09586472
; Patent No. 6323335
; GENERAL INFORMATION:
; APPLICANT: Huang, Shi
; TITLE OF INVENTION: Retinoblastoma Protein - Interacting
; Zinc Finger Proteins
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/586,472
; FILING DATE: 01-Jun-2000

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; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/528,706
; FILING DATE: 17-MAR-2000
; APPLICATION NUMBER: US 08/516,859
; FILING DATE: 18-AUG-1995
; APPLICATION NUMBER: US 08/399,411
; FILING DATE: 06-MAR-1995
; APPLICATION NUMBER: US 08/292,683
; FILING DATE: 18-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 4130
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 75:
US-09-586-472-75

Query Match 47.1%; Score 24; DB 3; Length 8;
Best Local Similarity 50.0%; Pred. No. 3.8e+05;
Matches 3; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 3 MIQGGD 8
Db 3 LLEGGD 8

RESULT 8
US-09-528-706-75
; Sequence 75, Application US/09528706
; Patent No. 6468985
; GENERAL INFORMATION:
; APPLICANT: Huang, Shi
; TITLE OF INVENTION: Retinoblastoma Protein - Interacting
; TITLE OF INVENTION: Zinc Finger Proteins
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/528,706
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/516,859
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/292,683
; FILING DATE: 18-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 1776
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 75:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-09-528-706-75

Query Match 47.1%; Score 24; DB 4; Length 8;
Best Local Similarity 50.0%; Pred. No. 3.8e+05;
Matches 3; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 3 MIQGGD 8
Db 3 LLEGGD 8

RESULT 9
US-08-765-953-8
; Sequence 8, Application US/08765953
; Patent No. 6342201
; GENERAL INFORMATION:
; APPLICANT: DINKELBORG, LUDGER
; APPLICANT: STEPHAN, CHRISTOPH
; APPLICANT: SEMMLER, WOLFHARD
; APPLICANT: SPECK, ULRICH
; APPLICANT: KENKLEIN, PETER
; TITLE OF INVENTION: COMPLEX COMPOUNDS FOR DIAGNOSIS OF
; TITLE OF INVENTION: VASCULAR DISEASES
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: WOOD, PHILLIPS, VAN SANTEN, CLARK & MORTIMER
; STREET: 500 West Madison Street, Suite 3800
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60661-2511
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: COMPAQ ProLinea 4/25s
; OPERATING SYSTEM: DOS
; SOFTWARE: WordPerfect for Windows 6.0a
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/765,953
; FILING DATE: 17-JULY-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/DE95/00837
; FILING DATE: 21-JUNE-1995
; APPLICATION NUMBER: P 44 25 778.3
; FILING DATE: 13-JULY-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Mortimer, John S.
; REGISTRATION NUMBER: 30,407
; REFERENCE/DOCKET NUMBER: 1214.00001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/876-1800
; TELEFAX: 312/876-2020
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
US-08-765-953-8

Query Match 47.1%; Score 24; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 6 GGDF 9
| | | |
Db 1 GGDF 4

RESULT 10
5196404-18
; Patent No. 5196404
; APPLICANT: MARAGANORE, JOHN M.; FENTON II, JOHN M.; KLINE, TONI
; TITLE OF INVENTION: INHIBITORS OF THROMBIN
; NUMBER OF SEQUENCES: 18
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/549,388
; FILING DATE: 06-JUL-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 395,482
; FILING DATE: 18-AUG-1989
; SEQ ID NO:18:
; LENGTH: 10
5196404-18

Query Match 47.1%; Score 24; DB 6; Length 10;
Best Local Similarity 42.9%; Pred. No. 2e+02;
Matches 3; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DYMIQGG 7
| : : | |
Db 2 DFLAEGG 8

RESULT 11
5433940-25
; Patent No. 5433940
; APPLICANT: MARAGANORE, JOHN M.; FENTON II, JOHN M.; KLINE, TONI
; TITLE OF INVENTION: INHIBITORS OF THROMBIN
; NUMBER OF SEQUENCES: 25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/834,259
; FILING DATE: 17-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 548,388
; FILING DATE: 06-JUL-1989
; APPLICATION NUMBER: 395,482
; FILING DATE: 18-AUG-1989
; SEQ ID NO:25:
; LENGTH: 10
5433940-25

Query Match 47.1%; Score 24; DB 6; Length 10;
Best Local Similarity 42.9%; Pred. No. 2e+02;
Matches 3; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DYMIQGG 7
| : : | |
Db 2 DFLAEGG 8

RESULT 12
US-09-846-350A-1
; Sequence 1, Application US/09846350A
; Patent No. 6599877
; GENERAL INFORMATION:
; APPLICANT: Jackowski, George
; APPLICANT: Marshall, John
; APPLICANT: Vrees, Tammy
; APPLICANT: Thatcher, Brad
; TITLE OF INVENTION: Biopolymer Marker Indicative of Disease State Having A Molecular
; FILE OF INVENTION: of 1020 Daltons
; FILE REFERENCE: 2132.025
; CURRENT APPLICATION NUMBER: US/09/846,350A
; CURRENT FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 1
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-846-350A-1

Query Match 47.1%; Score 24; DB 4; Length 12;
Best Local Similarity 42.9%; Pred. No. 2.5e+02;
Matches 3; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DYMIQGG 7
| : : | |
Db 2 DFLAEGG 8

RESULT 13
US-07-620-426B-19
; Sequence 19, Application US/07620426B
; Patent No. 5298421
; GENERAL INFORMATION:
; APPLICANT: Davies, Huw Maelor
; APPLICANT: Pollard, Michael Roman
; APPLICANT: Voekler, Toni Alois
; TITLE OF INVENTION: Plant Thioesterases
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Calgene, Inc.
; STREET: 1920 Fifth Street
; CITY: Davis
; STATE: California
; COUNTRY: USA
; ZIP: 95616

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 720 KB storage
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh 6.0.7
; SOFTWARE: MicrosoftWord 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/620,426B
; FILING DATE: 19901130
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/514,030
; FILING DATE: 26-APRIL-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Elizabeth Lassen
; REGISTRATION NUMBER: 31,845
; NAME: Donna E. Scherer
; REGISTRATION NUMBER: 34,719
; REFERENCE/DOCKET NUMBER: CGNE 70-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 916-753-6313
; TELEFAX: 916-753-1510
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-07-620-426B-19

Query Match 46.1%; Score 23.5; DB 1; Length 11;
Best Local Similarity 85.7%; Pred. No. 2.8e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 DYMIQGG 7
| | | | |
Db 1 DY-IQGG 6

RESULT 14
US-07-662-007B-19
; Sequence 19, Application US/07662007B

Patent No. 5344771
GENERAL INFORMATION:
APPLICANT: Davies, Huw Maelor
APPLICANT: Pollard, Michael Roman
APPLICANT: Voelker, Toni Alois
APPLICANT: Thompson, Gregory A.
TITLE OF INVENTION: Plant Thioesterases
NUMBER OF SEQUENCES: 38
CORRESPONDENCE ADDRESS:
ADDRESSEE: Calgene, Inc.
STREET: 1920 Fifth Street
CITY: Davis
STATE: California
COUNTRY: USA
ZIP: 95616
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 KB storage
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh 6.0.7
SOFTWARE: MicrosoftWord 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/662,007B
FILING DATE: 19910408
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/514,030
FILING DATE: 26-APR-1990
APPLICATION NUMBER: 07/620,426
FILING DATE: 30-NOV-1990
ATTORNEY/AGENT INFORMATION:
NAME: Elizabeth Lassen
REGISTRATION NUMBER: 31,845
REFERENCE/DOCKET NUMBER: CGNE 70-2
TELEPHONE: 916-753-6313
TELEFAX: 916-753-1510
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-07-662-007B-19
Query Match 46.1%; Score 23.5; DB 1; Length 11;
Best Local Similarity 85.7%; Pred. No. 2.8e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 1 DYMIQGG 7
Db 1 DY-IQGG 6
RESULT 15
US-07-824-247-19
Sequence 19, Application US/07824247
Patent No. 5512482
GENERAL INFORMATION:
APPLICANT: Voelker, Toni Alois
TITLE OF INVENTION: Plant Thioesterases
NUMBER OF SEQUENCES: 48
CORRESPONDENCE ADDRESS:
ADDRESSEE: Calgene, Inc.
STREET: 1920 Fifth Street
CITY: Davis
STATE: California
COUNTRY: USA
ZIP: 95616
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 KB storage
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh 6.0.7
SOFTWARE: MicrosoftWord 4.0

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/824,247
FILING DATE: 19920122
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/782,263
FILING DATE: 24-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/773,096
FILING DATE: 7-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/704,861
FILING DATE: 21-MAY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/02960
FILING DATE: 25-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/662,007
FILING DATE: 27-FEB-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/620,426
FILING DATE: 30-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/514,030
FILING DATE: 26-APR-1990
ATTORNEY/AGENT INFORMATION:
NAME: Elizabeth Lassen
REGISTRATION NUMBER: 31,845
NAME: Donna E. Scherer
REGISTRATION NUMBER: 34,719
REFERENCE/DOCKET NUMBER: CGNE 82-3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 916-753-6313
TELEFAX: 916-753-1510
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-07-824-247-19
Query Match 46.1%; Score 23.5; DB 1; Length 11;
Best Local Similarity 85.7%; Pred. No. 2.8e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 1 DYMIQGG 7
Db 1 DY-IQGG 6
Search completed: October 21, 2004, 07:29:31
Job time : 22.5 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:15:25 ; Search time 61.75 Seconds
(without alignments)
47.187 Million cell updates/sec

Title: US-09-720-469A-40
Perfect score: 51
Sequence: 1 DYMIQGGDF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1364641 seqs, 323758627 residues

Total number of hits satisfying chosen parameters: 193469

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*
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19: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	51	100.0	9	16	US-10-788-016-9	Sequence 9, Appli
2	47	92.2	9	15	US-10-447-161-85	Sequence 85, Appli
3	47	92.2	9	16	US-10-788-016-2	Sequence 2, Appli
4	26	51.0	10	10	US-09-573-822C-257	Sequence 257, App
5	26	51.0	12	14	US-10-320-231A-18	Sequence 18, Appl
6	25	49.0	9	15	US-10-057-475B-10856	Sequence 10856, A
7	25	49.0	9	15	US-10-057-475B-10911	Sequence 10911, A
8	25	49.0	9	15	US-10-154-884B-10856	Sequence 10856, A
9	25	49.0	9	15	US-10-154-884B-10911	Sequence 10911, A
10	25	49.0	9	15	US-10-363-791-103	Sequence 103, App
11	25	49.0	9	15	US-10-182-252A-872	Sequence 872, App
12	24	47.1	10	9	US-09-846-350-1	Sequence 1, Appli
13	24	47.1	11	9	US-09-846-342-1	Sequence 1, Appli
14	24	47.1	11	15	US-10-356-257-161	Sequence 161, App

15	24	47.1	12	9	US-09-845-725-1	Sequence 1, Appli
16	23	45.1	9	15	US-10-182-252A-281	Sequence 281, App
17	23	45.1	9	15	US-10-182-252A-282	Sequence 282, App
18	23	45.1	9	15	US-10-182-252A-878	Sequence 878, App
19	23	45.1	9	15	US-10-182-252A-879	Sequence 879, App
20	23	45.1	9	15	US-10-182-252A-880	Sequence 880, App
21	23	45.1	9	15	US-10-182-252A-881	Sequence 881, App
22	23	45.1	9	15	US-10-182-252A-882	Sequence 882, App
23	23	45.1	9	15	US-10-182-252A-883	Sequence 883, App
24	23	45.1	11	9	US-09-791-378-497	Sequence 497, App
25	23	45.1	11	9	US-09-791-378-546	Sequence 546, App
26	23	45.1	11	9	US-09-791-378-583	Sequence 583, App
27	23	45.1	11	9	US-09-826-290-337	Sequence 337, App
28	23	45.1	11	10	US-09-791-393-216	Sequence 216, App
29	23	45.1	11	10	US-09-791-389-216	Sequence 216, App
30	23	45.1	11	11	US-09-791-377-497	Sequence 497, App
31	23	45.1	11	11	US-09-791-377-546	Sequence 546, App
32	23	45.1	11	11	US-09-791-377-583	Sequence 583, App
33	23	45.1	11	14	US-10-076-047A-55	Sequence 55, Appl
34	23	45.1	11	15	US-10-264-309-466	Sequence 466, App
35	23	45.1	12	8	US-08-841-636A-27	Sequence 27, Appl
36	23	45.1	12	14	US-10-167-831-71	Sequence 71, Appl
37	23	45.1	12	16	US-10-782-002-27	Sequence 27, Appl
38	23	45.1	12	16	US-10-825-378-27	Sequence 27, Appl
39	22	43.1	9	15	US-10-182-252A-891	Sequence 891, App
40	22	43.1	9	15	US-10-182-252A-892	Sequence 892, App
41	22	43.1	9	15	US-10-182-252A-893	Sequence 893, App
42	22	43.1	9	15	US-10-182-252A-894	Sequence 894, App
43	22	43.1	9	15	US-10-182-252A-895	Sequence 895, App
44	22	43.1	9	15	US-10-182-252A-896	Sequence 896, App
45	22	43.1	9	15	US-10-182-252A-897	Sequence 897, App

ALIGNMENTS

RESULT 1
US-10-788-016-9
; Sequence 9, Application US/10788016
; Publication No. US20040141992A1
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo
; TITLE OF INVENTION: Desensitizers
; FILE REFERENCE: 3190-049
; CURRENT APPLICATION NUMBER: US/10/788,016
; CURRENT FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/JP02/08641
; PRIOR FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: JP P2001-260046
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 9
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Designed peptide based on the peptide consisting of 9 amino acid
; OTHER INFORMATION: residues from the 91st residue to the 99th residue of
; OTHER INFORMATION: cyclophilin B
US-10-788-016-9

Query Match 100.0%; Score 51; DB 16; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.2e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DYMIQGGDF 9
Db 1 DYMIQGGDF 9

RESULT 2
US-10-447-161-85

; Sequence 85, Application US/10447161
; Publication No. US20040023314A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Rong-fu
; TITLE OF INVENTION: Mutant Fibronectin and Tumor Metastasis
; FILE REFERENCE: HO-P02484US1
; CURRENT APPLICATION NUMBER: US/10/447,161
; CURRENT FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: 60/383,530
; PRIOR FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 85
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-447-161-85

Query Match 92.2%; Score 47; DB 15; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.2e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DYMIQGGDF 9
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Db 1 DFMIQGGDF 9

RESULT 3

US-10-788-016-2
; Sequence 2, Application US/10788016
; Publication No. US20040141992A1
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo
; TITLE OF INVENTION: Desensitizers
; FILE REFERENCE: 3190-049
; CURRENT APPLICATION NUMBER: US/10/788,016
; CURRENT FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/JP02/08641
; PRIOR FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: JP P2001-260046
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Peptide consisting of 9 amino acid residues from the 91st residue
; OTHER INFORMATION: to the 99th residue of cyclophillin B
US-10-788-016-2

Query Match 92.2%; Score 47; DB 16; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.2e+06;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DYMIQGGDF 9
|:|||||
Db 1 DFMIQGGDF 9

RESULT 4

US-09-573-822C-257
; Sequence 257, Application US/09573822C
; Publication No. US20030199011A1
; GENERAL INFORMATION:
; APPLICANT: Proteom Ltd
; TITLE OF INVENTION: Complementary peptide ligands generated from microbial genome seq
; FILE REFERENCE: Microbe patent
; CURRENT APPLICATION NUMBER: US/09/573,822C
; CURRENT FILING DATE: 2000-05-18

; NUMBER OF SEQ ID NOS: 804
; SOFTWARE: ProtPatent version 1.0
; SEQ ID NO 257
; LENGTH: 10
; TYPE: PRT
; ORGANISM: mycoplasma genitalium
; FEATURE:
; OTHER INFORMATION: Sequence located in MG024 at 351-360 and may interact with Sequen
; OTHER INFORMATION: in this patent.
US-09-573-822C-257

Query Match 51.0%; Score 26; DB 10; Length 10;
Best Local Similarity 50.0%; Pred. No. 3.7e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DYMIQGGD 8
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Db 1 NYLIKDGD 8

RESULT 5

US-10-320-231A-18
; Sequence 18, Application US/10320231A
; Publication No. US20030194405A1
; GENERAL INFORMATION:
; APPLICANT: Neben, Steven
; APPLICANT: Takeuchi, Toshihiko
; APPLICANT: Tomkinson, Adrian
; TITLE OF INVENTION: Antibody Inhibiting Stem Cell Factor Activity And Use For
; TITLE OF INVENTION: Treatment Of Asthma
; FILE REFERENCE: 7430*163
; CURRENT APPLICATION NUMBER: US/10/320,231A
; CURRENT FILING DATE: 2002-12-19
; PRIOR APPLICATION NUMBER: US 60/342,174
; PRIOR FILING DATE: 2001-12-17
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 18
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: synthetic sequence
US-10-320-231A-18

Query Match 51.0%; Score 26; DB 14; Length 12;
Best Local Similarity 50.0%; Pred. No. 4.5e+02;
Matches 4; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 YMIQGGDF 9
|:|:
Db 3 YFLYNGDF 10

RESULT 6

US-10-057-475B-10856
; Sequence 10856, Application US/10057475B
; Publication No. US20040002068A1
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Algate, Paul A.
; APPLICANT: Mannion, Jane
; APPLICANT: Clapper, Jonathan David
; APPLICANT: Wang, Aijun
; APPLICANT: Ordonez, Nadia
; APPLICANT: Carter, Lauren
; APPLICANT: McNeill, Patricia Dianne
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Compositions and Methods for the Detection, Diagnosis and Therapy
; TITLE OF INVENTION: Hematological Malignancies
; FILE REFERENCE: 014058-014402US
; CURRENT APPLICATION NUMBER: US/10/057,475B
; CURRENT FILING DATE: 2002-01-22

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; PRIOR APPLICATION NUMBER: US 60/186,126
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: US 60/190,479
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: US 60/200,545
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: US 60/200,303
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 60/200,779
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 60/200,999
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: US 60/202,084
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: US 60/206,201
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: US 60/218,950
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: US 60/222,903
; PRIOR FILING DATE: 2000-08-03
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 10979
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10856
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Lyl484 long MHC HLA A2 class I binding peptide
US-10-057-475B-10856

Query Match          49.0%; Score 25; DB 15; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      4 IQGGDF 9
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Db      2 LQGSF 7

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; Sequence 10911, Application US/10057475B
; Publication No. US20040002068A1
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Algate, Paul A.
; APPLICANT: Mannion, Jane
; APPLICANT: Clapper, Jonathan David
; APPLICANT: Wang, Aijun
; APPLICANT: Ordenez, Nadia
; APPLICANT: Carter, Lauren
; APPLICANT: McNeill, Patricia Dianne
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Compositions and Methods for the Detection, Diagnosis and Therapy
; FILE REFERENCE: 014058-014402US
; CURRENT APPLICATION NUMBER: US/10/057,475B
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/186,126
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: US 60/190,479
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: US 60/200,545
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: US 60/200,303
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 60/200,779
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 60/200,999
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: US 60/202,084
; PRIOR FILING DATE: 2000-05-04
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 10979
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10856
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Lyl484 long MHC HLA A2 class I binding peptide
US-10-057-475B-10856
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; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: US 60/218,950
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: US 60/222,903
; PRIOR FILING DATE: 2000-08-03
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 10979
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10911
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Lyl484 short MHC HLA A2 class I binding peptide
US-10-057-475B-10911

Query Match          49.0%; Score 25; DB 15; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      4 IQGGDF 9
      :||| |
Db      2 LQGSF 7

RESULT 8
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; Sequence 10856, Application US/10154884B
; Publication No. US20040005561A1
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Algate, Paul A.
; APPLICANT: Mannion, Jane
; APPLICANT: Retter, Marc W.
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Compositions and Methods for the Detection, Diagnosis and Therapy
; FILE REFERENCE: 014058-013521US
; CURRENT APPLICATION NUMBER: US/10/154,884B
; CURRENT FILING DATE: 2002-05-23
; PRIOR APPLICATION NUMBER: US 60/186,126
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: US 60/190,479
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: US 60/200,545
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: US 60/200,303
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 60/200,779
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 60/200,999
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: US 60/202,084
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: US 60/206,201
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: US 60/218,950
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: US 60/222,903
; PRIOR FILING DATE: 2000-08-03
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 11290
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10856
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Lyl484 long MHC HLA A2 class I binding peptide
US-10-154-884B-10856

Query Match          49.0%; Score 25; DB 15; Length 9;
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Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 4 IQGGDF 9
Db 2 LQGGSF 7

RESULT 9
US-10-154-884B-10911
; Sequence 10911, Application US/10154884B
; Publication No. US20040005561A1
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Algate, Paul A.
; APPLICANT: Mannion, Jane
; APPLICANT: Retter, Marc W.
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Compositions and Methods for the Detection, Diagnosis and Therapy
; TITLE OF INVENTION: Hematological Malignancies
; FILE REFERENCE: 014058-013521US
; CURRENT APPLICATION NUMBER: US/10/154,884B
; CURRENT FILING DATE: 2002-05-23
; PRIOR APPLICATION NUMBER: US 60/186,126
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: US 60/190,479
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: US 60/200,545
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: US 60/200,303
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; PRIOR APPLICATION NUMBER: US 60/206,201
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: US 60/218,950
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: US 60/222,903
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 11290
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10911
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Lyl484 short MHC HLA A2 class I binding peptide
US-10-154-884B-10911

Query Match 49.0%; Score 25; DB 15; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 4 IQGGDF 9
Db 2 LQGGSF 7

RESULT 10
US-10-363-791-103
; Sequence 103, Application US/10363791
; Publication No. US20040029197A1
; GENERAL INFORMATION:
; APPLICANT: TAKIMOTO, Masato
; APPLICANT: KUZUMAKI, No. US20040029197A1oru
; APPLICANT: SATO, No. US20040029197Aliyuki
; APPLICANT: SAHARA, Hiroeki
; TITLE OF INVENTION: A novel human cancer/testis-associated gene thereof
; CURRENT APPLICATION NUMBER: US/09/846,350
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FILE REFERENCE: 4439-4006
CURRENT APPLICATION NUMBER: US/10/363,791
CURRENT FILING DATE: 2003-03-07
PRIOR APPLICATION NUMBER: JP 2000-274218
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 227
SOFTWARE: PatentIn version 3.2
SEQ ID NO 103
LENGTH: 9
TYPE: PRT
ORGANISM: Homo sapiens
US-10-363-791-103

Query Match 49.0%; Score 25; DB 15; Length 9;
Best Local Similarity 55.6%; Pred. No. 1.2e+06;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 DYMIQGGDF 9
Db 1 DITIYGNDP 9

RESULT 11
US-10-182-252A-872
; Sequence 872, Application US/10182252A
; Publication No. US20040072162A1
; GENERAL INFORMATION:
; APPLICANT: FOMSGAARD, ANDERS
; APPLICANT: BRUNAK, SOREN
; APPLICANT: BUUS, SOREN
; APPLICANT: CORBET, SYLVIE
; APPLICANT: LAUEMOLLER, SANNE LISE
; APPLICANT: HANSEN, JAN
; TITLE OF INVENTION: HIV PEPTIDE AND NUCLEIC ACIDS ENCODING THEM FOR DIAGNOSIS AND
; TITLE OF INVENTION: CONTROL OF HIV INFECTIONS
; FILE REFERENCE: 330307/0205
; CURRENT APPLICATION NUMBER: US/10/182,252A
; CURRENT FILING DATE: 2003-04-10
; PRIOR APPLICATION NUMBER: PCT/DK01/00059
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: EP 00610017.6
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: US 60/179,333
; PRIOR FILING DATE: 2000-01-31
; NUMBER OF SEQ ID NOS: 1388
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 872
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: HIV peptide
US-10-182-252A-872

Query Match 49.0%; Score 25; DB 15; Length 9;
Best Local Similarity 71.4%; Pred. No. 1.2e+06;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 MIQGGDF 9
Db 1 MIQGNF 7

RESULT 12
US-09-846-350-1
; Sequence 1, Application US/09846350
; Patent No. US20020161188A1
; GENERAL INFORMATION:
; APPLICANT: Jackowski, George
; TITLE OF INVENTION: Biopolymer Marker Indicative of Disease State Having a Molecular
; TITLE OF INVENTION: of 1020 Daltons
; FILE REFERENCE: 2132-.025
; CURRENT APPLICATION NUMBER: US/09/846,350
```

; CURRENT FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-846-350-1

Query Match 47.1%; Score 24; DB 9; Length 10;
Best Local Similarity 42.9%; Pred. No. 8.6e+02;
Matches 3; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DYMIQGG 7
|:::|
Db 1 DFLAEGG 7

RESULT 13

US-09-846-342-1
; Sequence 1, Application US/09846342
; Patent No. US20020160422A1
; GENERAL INFORMATION:

; APPLICANT: Jackowski, George
; TITLE OF INVENTION: BIOPOLYMER MARKER INDICATIVE OF DISEASE STATE HAVING A MOLECULAR
; TITLE OF INVENTION: OF 1077 DALTONS
; FILE REFERENCE: 2132.026
; CURRENT APPLICATION NUMBER: US/09/846,342
; CURRENT FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-846-342-1

Query Match 47.1%; Score 24; DB 9; Length 11;
Best Local Similarity 42.9%; Pred. No. 9.5e+02;
Matches 3; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DYMIQGG 7
|:::|
Db 2 DFLAEGG 8

RESULT 14

US-10-356-257-161
; Sequence 161, Application US/10356257
; Publication No. US20040087767A1
; GENERAL INFORMATION:

; APPLICANT: LAZARUS, ROBERT A.
; APPLICANT: MAUN, HENRY R.
; TITLE OF INVENTION: FVIIa Antagonists
; FILE REFERENCE: P1950R1
; CURRENT APPLICATION NUMBER: US/10/356,257
; CURRENT FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: US 60/355,420
; PRIOR FILING DATE: 2002-02-06
; NUMBER OF SEQ ID NOS: 355
; SEQ ID NO 161
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:

; OTHER INFORMATION: sequence is synthesized
US-10-356-257-161

Query Match 47.1%; Score 24; DB 15; Length 11;
Best Local Similarity 50.0%; Pred. No. 9.5e+02;
Matches 3; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 YMIQGG 7

Db 6 FMVRGG 11
|:::|

RESULT 15

US-09-845-725-1
; Sequence 1, Application US/09845725
; Patent No. US20020161185A1
; GENERAL INFORMATION:

; APPLICANT: Jackowski, George
; TITLE OF INVENTION: BIOPOLYMER MARKER INDICATIVE OF DISEASE STATE HAVING A MOLECULAR
; TITLE OF INVENTION: OF 1206 DALTONS
; FILE REFERENCE: 2132.028
; CURRENT APPLICATION NUMBER: US/09/845,725
; CURRENT FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-845-725-1

Query Match 47.1%; Score 24; DB 9; Length 12;
Best Local Similarity 42.9%; Pred. No. 1e+03;
Matches 3; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DYMIQGG 7
|:::|
Db 3 DFLAEGG 9

Search completed: October 21, 2004, 07:33:43
Job time : 61.75 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:12:54 ; Search time 15.75 Seconds
(without alignments)
54.981 Million cell updates/sec

Title: US-09-720-469A-40
Perfect score: 51
Sequence: 1 DYMIQGGDF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 1582

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR_79.*
1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	23	45.1	11	2	B60769	Ig H2 chain - Pacific hagfish (fragment)
2	20	39.2	10	2	E60589	sperm-activating p
3	20	39.2	12	2	A61309	glycoprotein hormo
4	20	39.2	12	2	PH1458	T-cell receptor be
5	20	39.2	12	2	S43170	kinesin light chai
6	19	37.3	10	2	PN0165	triose-phosphate i
7	19	37.3	10	2	F33932	Ig mu chain J regi
8	19	37.3	11	2	FU0029	33K protein 3218 -
9	19	37.3	12	2	S65730	hemoglobin, extrac
10	18	35.3	7	2	PT0542	T-cell receptor be
11	18	35.3	8	2	PQ0012	cholecystokinin -
12	18	35.3	8	2	A43001	cholecystokinin -
13	18	35.3	8	2	JS0318	leucokinin VIII -
14	18	35.3	9	2	QDRB	delta sleep-induci
15	18	35.3	11	2	PT0250	Ig heavy chain CRD
16	18	35.3	11	2	PH1343	Ig heavy chain DU
17	18	35.3	11	2	S60354	retinal oxidase -
18	18	35.3	11	2	PN0044	protein kinase C i
19	18	35.3	11	2	PT0218	T-cell receptor be
20	18	35.3	11	2	I41946	T-cell receptor ga
21	18	35.3	11	2	A61575	Trimeresurus serin
22	18	35.3	12	2	S26544	T-cell receptor be
23	17	33.3	3	3	A23751	spinal cord peptid
24	17	33.3	9	1	YFPG	thymic factor - pi
25	17	33.3	9	2	A60957	thymocyte growth p
26	17	33.3	10	2	E41946	T-cell receptor p
27	17	33.3	10	2	A60589	sperm-activating p
28	17	33.3	11	2	S57575	T cell receptor V-
29	17	33.3	11	2	D37196	bradykinin-potenti

30	17	33.3	11	4	S19015	hypothetical prote
31	16	31.4	9	2	E41978	calliFMRFamide 5 -
32	16	31.4	9	2	F41978	calliFMRFamide 6 -
33	16	31.4	9	2	G41978	calliFMRFamide 7 -
34	16	31.4	10	2	C61440	polygalacturonase
35	16	31.4	10	2	S62880	polygalacturonase
36	16	31.4	10	2	A44871	monodehydroascorba
37	16	31.4	10	2	C60787	sperm-activating p
38	16	31.4	10	2	A60588	sperm-activating p
39	16	31.4	10	2	C60527	sperm-activating p
40	16	31.4	10	2	E39572	sperm-activating p
41	16	31.4	10	2	D60589	sperm-activating p
42	16	31.4	12	2	S26541	T-cell receptor be
43	16	31.4	12	2	PH1606	Ig H chain V-D-J r
44	16	31.4	12	2	S23168	Z protein - guinea
45	16	31.4	12	2	T46794	hypothetical prote

ALIGNMENTS

RESULT 1

B60769
Ig H2 chain - Pacific hagfish (fragment)
C;Species: Eptatretus stouti (Pacific hagfish)
C;Date: 03-Jun-1993 #sequence_revision 03-Jun-1993 #text_change 03-Jun-1993
C;Accession: B60769
R;Hanley, P.J.; Seppelt, I.M.; Gooley, A.A.; Hook, J.W.; Raison, R.L.
J. Immunol. 145, 3823-3828, 1990
A;Title: Distinct Ig H chains in a primitive vertebrate, Eptatretus stouti.
A;Reference number: A60769; MUID:91060965; PMID:2123225
A;Accession: B60769
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-11 <HAN>

Query Match 45.1%; Score 23; DB 2; Length 11;
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DYMIQ 5
|:|
DB 5 DFMIQ 9

RESULT 2

E60589
sperm-activating peptide (Tyr-2, Ser-3,5, Ala-8, Asp-10 SAP-I) - Echinometra mathaei
C;Species: Echinometra mathaei
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-2004
C;Accession: E60589
R;Yoshino, K.I.; Kajiwara, H.; Nomura, K.; Takao, T.; Shimonishi, Y.; Kurita, M.; Yamaguchi
Comp. Biochem. Physiol. B 94, 739-751, 1989
A;Title: A halogenated amino acid-containing sperm activating peptide and its related peptides
otus nudus, Echinometra mathaei and Heterocentrotus mamillatus.
A;Reference number: A60527
A;Accession: E60589
A;Molecule type: protein
A;Residues: 1-10 <YOS>
A;Cross-references: UNIPROT:Q7M4C1
A;Note: an identical peptide was isolated from Echinometra mathaei type A and type B

Query Match 39.2%; Score 20; DB 2; Length 10;
Best Local Similarity 50.0%; Pred. No. 7.7e+02;
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 YMIQG 7
|:|
DB 2 YLSGG 7

RESULT 3

A61309

glycoprotein hormones alpha chain - hamster (fragment)
N;Alternate names: chorionadotropin alpha chain; luteinizing hormone alpha chain; lut
C;Species: Cricetinae gen. sp. (hamster)
C;Date: 17-Jul-1994 #sequence_revision 17-Jul-1994 #text_change 09-Jul-2004
C;Accession: A61309
R;Glenn, S.D.; Nahm, H.S.; Greenwald, G.S.; Ward, D.N.
Endocrinology 111, 1263-1269, 1982
A;Title: Isolation and characterization of hamster luteinizing hormone.
A;Reference number: A61309; MUID:83003498; PMID:6889489
A;Accession: A61309
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-12 <GLE>
A;Cross-references: UNIPROT:Q7M0A7
C;Superfamily: glycoprotein hormones alpha chain
C;Keywords: glycoprotein

Query Match 39.2%; Score 20; DB 2; Length 12;
Best Local Similarity 50.0%; Pred. No. 9.3e+02;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DYMIQG 6
|: :||
Db 5 DFTMQG 10

RESULT 4
PH1458
T-cell receptor beta chain (clone 332/1K) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 10-Mar-1994 #sequence_revision 10-Mar-1994 #text_change 15-Mar-2004
C;Accession: PH1458; S26543
R;Casanova, J.L.; Martinon, F.; Gournier, H.; Barra, C.; Pannetier, C.; Regnault, A.; Ko
J. Exp. Med. 177, 811-820, 1993
A;Title: T cell receptor selection by and recognition of two class I major histocompatib
A;Reference number: PH1430; MUID:93171821; PMID:8436911
A;Accession: PH1458
A;Molecule type: mRNA
A;Residues: 1-12 <CAS>
A;Experimental source: cytolytic T-lymphocyte, clone 332/1K
R;Casanova, J.L.; Cerottini, J.C.; Matthes, M.; Necker, A.; Gournier, H.; Barra, C.; Wid
J. Exp. Med. 176, 439-447, 1992
A;Title: H-2-restricted cytolytic T lymphocytes specific for HLA display T cell receptor
A;Reference number: S26512; MUID:92364546; PMID:1380061
A;Accession: S26543
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-12 <CA2>
A;Cross-references: EMBL:X67993
A;Experimental source: cytolytic T-lymphocyte, clone Cw3/C44
C;Keywords: receptor; T-cell

Query Match 39.2%; Score 20; DB 2; Length 12;
Best Local Similarity 60.0%; Pred. No. 9.3e+02;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 5 QGGDF 9
|: :||
Db 5 QGSDY 9

RESULT 5
S43170
kinesin light chain - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 13-Jan-1995 #sequence_revision 18-Aug-2000 #text_change 09-Jul-2004
C;Accession: S43170
R;Chernajovsky, Y.; Brown, A.; Jones, T.A.; Sheer, D.
submitted to the EMBL Data Library, December 1992
A;Description: Promoter first exon/intron characterization and chromosomal location of b
A;Reference number: S43170
A;Accession: S43170
A;Status: preliminary

A;Molecule type: DNA
A;Residues: 1-12 <CHE>
A;Cross-references: UNIPROT:Q13865; EMBL:X69658; NID:g468786; PIDN:CAA49349.1; PID:g46878
Query Match 39.2%; Score 20; DB 2; Length 12;
Best Local Similarity 60.0%; Pred. No. 9.3e+02;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 MIQGG 7
|: :||
Db 1 MLRGG 5

RESULT 6
PN0165
triase-phosphate isomerase (EC 5.3.1.1) - fungus (Fusarium sporotrichioides) (fragment)
C;Species: Fusarium sporotrichioides
C;Date: 05-Aug-1994 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C;Accession: PN0165
R;Fukaya, N.; Chow, L.P.; Sugiyura, Y.; Tsugita, A.; Ueno, Y.; Tabuchi, K.
submitted to JIPID, May 1994
A;Description: Two dimensional polyacrylamide gel electrophoresis of Fusarium sporotrich
A;Reference number: PN0160
A;Accession: PN0165
A;Molecule type: protein
A;Residues: 1-10 <FUK>
A;Cross-references: UNIPROT:Q7M4X7
A;Experimental source: strain M-1-1
C;Keywords: intramolecular oxidoreductase; isomerase

Query Match 37.3%; Score 19; DB 2; Length 10;
Best Local Similarity 75.0%; Pred. No. 1.2e+03;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGDF 9
|: :||
Db 7 GGNF 10

RESULT 7
F33932
Ig mu chain J region (E7) - mouse
C;Species: Mus musculus (house mouse)
C;Date: 09-Mar-1990 #sequence_revision 09-Mar-1990 #text_change 09-Jul-2004
C;Accession: F33932
R;Baccala, R.; Vo Quang, T.; Gilbert, M.; Ternynck, T.; Avrameas, S.
Proc. Natl. Acad. Sci. U.S.A. 86, 4624-4628, 1989
A;Title: Two murine natural polyreactive autoantibodies are encoded by nonmutated germ-l
A;Reference number: A33932; MUID:89282823; PMID:2499887
A;Accession: F33932
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-10 <BAC>
A;Cross-references: UNIPROT:Q99NG4; UNIPROT:Q924Q6; UNIPROT:Q924Q9; UNIPROT:Q924Q1; UNIP
PROT:Q9DCD9; UNIPROT:Q924R0; UNIPROT:Q8K172; UNIPROT:Q99LA6; UNIPROT:Q91X92; GB:M27106
C;Keywords: immunoglobulin

Query Match 37.3%; Score 19; DB 2; Length 10;
Best Local Similarity 66.7%; Pred. No. 1.2e+03;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DYMIQG 6
|: :||
Db 3 DYWGQG 8

RESULT 8
PU0029
33K protein 3218 - rice (strain Nohonbare) (fragment)
C;Species: Oryza sativa (rice)
C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 11-Apr-1995
C;Accession: PU0029
R;Tsugita, A.; Miyatake, N.

submitted to JIPID, April 1993
A;Reference number: PS0208
A;Accession: PU0029
A;Molecule type: protein
A;Residues: 1-11 <TSU>
A;Experimental source: bran
C;Comment: molecular weight 33K, pI 6.0.

Query Match 37.3%; Score 19; DB 2; Length 11;
Best Local Similarity 60.0%; Pred. No. 1.3e+03;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 5 QGGDF 9
|||
Db 3 EGGPF 7

RESULT 9

S65730
hemoglobin, extracellular, component - earthworm (Lumbricus terrestris) (fragment)
C;Species: Lumbricus terrestris (common earthworm)
C;Date: 06-Dec-1996 #sequence_revision 13-Mar-1997 #text_change 13-Mar-1997
C;Accession: S65730
R;Fushitani, K.; Higashiyama, K.; Asao, M.; Hosokawa, K.
Biochim. Biophys. Acta 1292, 273-280, 1996
A;Title: Characterization of the constituent polypeptides of the extracellular hemoglobin
A;Reference number: S65721; MUID:96176855; PMID:8597573
A;Accession: S65730
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-12 <FUS>

Query Match 37.3%; Score 19; DB 2; Length 12;
Best Local Similarity 60.0%; Pred. No. 1.5e+03;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DYMIQ 5
|:|
Db 7 DHLIQ 11

RESULT 10

PT0542
T-cell receptor beta chain V-D-J region (126-1BA) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PT0542
R;Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A;Reference number: PT0509; MUID:91277601; PMID:1711558
A;Accession: PT0542
A;Status: translation not shown
A;Molecule type: mRNA
A;Residues: 1-7 <FEE>
A;Experimental source: day 18 fetal thymus, strain BALB/c
C;Keywords: T-cell receptor

Query Match 35.3%; Score 18; DB 2; Length 7;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGD 8
|||
Db 3 GGD 5

RESULT 11

PQ0012
cholecystokinin - southeastern quoll
N;Alternate names: CCK
C;Species: Dasyurus viverrinus (southeastern quoll)
C;Date: 07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change 09-Jul-2004

C;Accession: PQ0012
R;Fan, Z.W.; Eng, J.; Shaw, G.; Yalow, R.S.
Peptides 9, 429-431, 1988
A;Title: Cholecystokinin octapeptide purified from brains of Australian marsupials.
A;Reference number: PQ0012; MUID:88234141; PMID:3375140
A;Accession: PQ0012
A;Molecule type: protein
A;Residues: 1-8 <FAN>
A;Cross-references: UNIPROT:P30369
C;Superfamily: gastrin
C;Keywords: amidated carboxyl end; hormone; neuropeptide; sulfoprotein
F;2/Binding site: sulfate (Tyr) (covalent) #status predicted
F;8/Modified site: amidated carboxyl end (Phe) #status predicted

Query Match 35.3%; Score 18; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DYM 3
|||
Db 1 DYM 3

RESULT 12

A43001
cholecystokinin - tammar wallaby
N;Alternate names: CCK
C;Species: Macropus eugenii (tammar wallaby)
C;Date: 30-Oct-1992 #sequence_revision 30-Oct-1992 #text_change 09-Jul-2004
C;Accession: A43001; PQ0012
R;Fan, Z.W.; Eng, J.; Shaw, G.; Yalow, R.S.
Peptides 9, 429-431, 1988
A;Title: Cholecystokinin octapeptide purified from brains of Australian marsupials.
A;Reference number: PQ0012; MUID:88234141; PMID:3375140
A;Accession: A43001
A;Molecule type: protein
A;Residues: 1-8 <FAN>
A;Cross-references: UNIPROT:P30369
C;Superfamily: Gastrin
C;Keywords: amidated carboxyl end; hormone; neuropeptide; sulfoprotein
F;2/Binding site: sulfate (Tyr) (covalent) #status predicted
F;8/Modified site: amidated carboxyl end (Phe) #status predicted

Query Match 35.3%; Score 18; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DYM 3
|||
Db 1 DYM 3

RESULT 13

JS0318
leucokinin VIII - Madeira cockroach
C;Species: Leucophaea maderae (Madeira cockroach)
C;Date: 07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change 09-Jul-2004
C;Accession: JS0318
R;Holman, G.M.; Cook, B.J.; Nachman, R.J.
Comp. Biochem. Physiol. C 88, 31-34, 1987
A;Title: Isolation, primary structure and synthesis of leucokinins VII and VIII: the final
A;Reference number: JS0317
A;Accession: JS0318
A;Molecule type: protein
A;Residues: 1-8 <HOL>
A;Cross-references: UNIPROT:P19990
C;Comment: Leucokinins, a family of cephalomyotropic peptides, stimulate contractile acti
C;Keywords: amidated carboxyl end; cephalomyotropic peptide
F;8/Modified site: amidated carboxyl end (Gly) #status experimental

Query Match 35.3%; Score 18; DB 2; Length 8;
Best Local Similarity 75.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 GGDF 9
| | |
Db 1 GADF 4

RESULT 14
QDRB
delta sleep-inducing peptide - rabbit
C:Species: Oryctolagus cuniculus (domestic rabbit)
C:Date: 20-Jun-2000 #sequence_revision 20-Jun-2000 #text_change 16-Aug-2004
C:Accession: A01422
R:Monnier, M.; Dudler, L.; Gachter, R.; Maier, P.F.; Tobler, H.J.; Schoenenberger, G.A.
Experientia 33, 548-552, 1977
A:Title: The delta sleep inducing peptide (DSIP). Comparative properties of the original
A:Reference number: A01422; MUID:77185324; PMID:862769
A:Accession: A01422
A:Molecule type: protein
A:Residues: 1-9 <MON>
A:Cross-references: UNIPROT:P01158
C:Comment: This peptide was obtained from dialysates of occipital venous sinus blood from
of recipient rabbits, it induces spindle and delta EEG activity and reduced motor activity

Query Match 35.3%; Score 18; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGD 8
| | |
Db 3 GGD 5

RESULT 15
PT0250
Ig heavy chain CRD3 region (clone 2-109B) - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C:Accession: PT0250
R:Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A:Title: Preferential utilization of specific immunoglobulin heavy chain diversity and
A:Reference number: PT0222; MUID:91108337; PMID:1899102
A:Accession: PT0250
A:Molecule type: DNA
A:Residues: 1-11 <YAM>
A:Experimental source: B lymphocyte
C:Keywords: heterotetramer; immunoglobulin

Query Match 35.3%; Score 18; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.1e+03;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 GDF 9
| | |
Db 4 GDF 6

Search completed: October 21, 2004, 07:28:00
Job time : 16.75 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 21, 2004, 07:05:04 ; Search time 86 Seconds
(without alignments)
60.214 Million cell updates/sec

Title: US-09-720-469A-40
Perfect score: 51
Sequence: 1 DYMIQGGDF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1825181 seqs, 575374646 residues

Total number of hits satisfying chosen parameters: 4909

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt 02:.*
1: uniprot_sprot.*
2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	23	45.1	7	2	Q63480	Q63480 rattus norv
2	22	43.1	9	2	Q9PS68	Q9ps68 gallus gall
3	22	43.1	12	2	Q9H3W2	Q9h3w2 homo sapien
4	21	41.2	11	2	Q70Y64	Q70y64 plectranthu
5	21	41.2	11	2	CAD45529	Cad45529 plectrant
6	21	41.2	12	2	Q70Y58	Q70y58 clinopodium
7	21	41.2	12	2	CAD45546	Cad45546 clinopodi
8	20	39.2	8	2	Q70Y88	Q70y88 platostoma
9	20	39.2	8	2	CAD45489	Cad45489 platostom
10	20	39.2	10	2	Q7M4C1	Q7m4c1 echinometra
11	20	39.2	12	2	Q13865	Q13865 homo sapien
12	20	39.2	12	2	Q7M0A7	Q7m0a7 cricetidae
13	19	37.3	7	2	O55184	O55184 rattus norv
14	19	37.3	10	2	Q7M4X7	Q7m4x7 fusarium sp
15	19	37.3	10	2	Q8UVW2	Q8uvw2 oreochromis
16	19	37.3	11	2	Q9HFN8	Q9hfn8 candida rug
17	19	37.3	11	2	O77876	O77876 oreochromis
18	19	37.3	11	2	Q70Y98	Q70y98 capitanopsi
19	19	37.3	11	2	CAD45456	Cad45456 capitanop
20	19	37.3	12	2	Q8UVV8	Q8uvv8 squalus aca
21	19	37.3	12	2	Q8UVW0	Q8uvw0 rana catesb
22	18	35.3	8	1	CCKN_MACEU	P30369 macropus eu
23	18	35.3	8	1	LCK8_LEUMA	P19990 leucophaea
24	18	35.3	8	1	LMT2_IOCMI	P22396 locusta mig
25	18	35.3	8	2	Q9TT78	Q9ttt78 canis fami
26	18	35.3	9	1	DSIP_RABIT	P01158 oryctolagus
27	18	35.3	9	2	Q6LDH6	Q6ldh6 rattus norv
28	18	35.3	9	2	AAA40600	Aaa40600 rattus no
29	18	35.3	10	2	Q51812	Q51812 plasmid f.
30	18	35.3	11	2	O87882	O87882 mycobacteri
31	18	35.3	11	2	P83168	P83168 struthio ca

32	18	35.3	12	2	Q9N2B8	Q9n2b8 pongo pygma
33	18	35.3	12	2	Q9N2B9	Q9n2b9 gorilla gor
34	18	35.3	12	2	Q9N2C0	Q9n2c0 pan troglod
35	18	35.3	12	2	Q46712	Q46712 plasmid r10
36	17.5	34.3	10	1	ESTA_SCHGA	P81012 schizaphis
37	17	33.3	7	1	ASCL_ALLAS	P84071 allium asca
38	17	33.3	8	2	Q90ZV5	Q90zv5 fulica leuc
39	17	33.3	9	1	THYF_PIG	P01255 sus scrofa
40	17	33.3	9	2	Q7M3C5	Q7m3c5 ovis aries
41	17	33.3	10	1	AMPN_HELAM	P81731 helicoverpa
42	17	33.3	10	2	Q6LCI4	Q6lci4 homo sapien
43	17	33.3	10	2	Q96QA7	Q96ga7 homo sapien
44	17	33.3	10	2	Q7M4B7	Q7m4b7 heterocentr
45	17	33.3	10	2	Q8MJ52	Q8mj52 equus cabal

ALIGNMENTS

RESULT 1
Q63480
ID Q63480 PRELIMINARY; PRT; 7 AA.
AC Q63480;
DT 01-NOV-1996 (Tremblrel. 01, Created)
DT 01-NOV-1996 (Tremblrel. 01, last sequence update)
DT 01-JUN-2003 (Tremblrel. 24, Last annotation update)
DE TR4-NS orphan receptor (Fragment).
GN Name=TR4;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=96198747; PubMed=8612486;
RA Yoshikawa T.; Makino S.; Gao X.M.; Xing G.Q.; Chuang D.M.;
RA Detera-Wadleigh S.D.;
RT "Splice variants of rat TR4 orphan receptor: differential expression
of novel sequences in the 5'-untranslated region and C-terminal
domain.";
RL Endocrinology 137:1562-1571(1996).
DR EMBL; U59125; AAB02827.1; -.
DR GO; GO:0004872; F:receptor activity; IEA.
KW Receptor.
FT NON TER 1
SQ SEQUENCE 7 AA; 758 MW; 672AA87864005350 CRC64;

Query Match 45.1%; Score 23; DB 2; Length 7;
Best Local Similarity 80.0%; Pred. No. 1.8e+06;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 IQGGD 8
|:|:
Db 2 IRGGD 6

RESULT 2
Q9PS68
ID Q9PS68 PRELIMINARY; PRT; 9 AA.
AC Q9PS68;
DT 01-MAY-2000 (Tremblrel. 13, Created)
DT 01-MAY-2000 (Tremblrel. 13, Last sequence update)
DT 01-JUN-2002 (Tremblrel. 21, Last annotation update)
DE LOW density lipoprotein receptor-related protein (Fragment).
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE.
RX MEDLINE=92011685; PubMed=1918027;
RA Stifani S.; Barber D.L.; Aebersold R.; Steyrer E.; Shen X.; Nimpf J.,

RA Schneider W.J.;
RT "The laying hen expresses two different low density lipoprotein
receptor-related proteins.";
RL J. Biol. Chem. 266:19079-19087(1991).
FT NON_TER 1 1
FT NON_TER 9 9
SQ SEQUENCE 9 AA; 1039 MW; 895EC68B5AB2CDC1 CRC64;

Query Match 43.1%; Score 22; DB 2; Length 9;
Best Local Similarity 60.0%; Pred. No. 1.8e+06;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DYMIQ 5
| | | | |
Db 5 DYMK 9

RESULT 3

Q9H3W2 Q9H3W2 PRELIMINARY; PRT; 12 AA.
AC Q9H3W2;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE TRE17 protein.
GN Name=TRE17 gene;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=94010310; PubMed=8406013;
RA Onno M., Nakamura T., Hillova J., Hill M.;
RT "Identification of novel sequences in the repertoire of hypervariable
TRE17 genes from immortalized nonmalignant and malignant human
keratinocytes.";
RL Gene 131:209-215(1993).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=93228825; PubMed=8471161;
RA Onno M., Nakamura T., Mariage-Samson R., Hillova J., Hill M.;
RT "Human TRE17 oncogene is generated from a family of homologous
polymorphic sequences by single-base changes.";
RL DNA Cell Biol. 12:107-118(1993).
RN [3]
RP SEQUENCE FROM N.A.
RA Hillova F.;
RL Submitted (APR-1993) to the EMBL/GenBank/DBJ databases.
DR EMBL; X71371; CAC16150.1; -.
SQ SEQUENCE 12 AA; 1252 MW; 6E17AFDE83ADD87B CRC64;

Query Match 43.1%; Score 22; DB 2; Length 12;
Best Local Similarity 50.0%; Pred. No. 2.7e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 3 MIQGD 8
| : | |
Db 3 MVEGAD 8

RESULT 4

Q70Y64 Q70Y64 PRELIMINARY; PRT; 11 AA.
AC Q70Y64;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Ribosomal protein (Fragment).
GN Name=rps16;
OS Plectranthus ciliatus.
OG Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
OC Lamiales; Lamiaceae; Nepetoideae; Ocimeae; Plectranthus.
OX NCBI_TaxID=204208;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15019625;
RA Paton A., Springate D.A., Sudde S., Otieno D., Grayer R., Harley M.M.,
RA Willis F., Simonds M.S.J., Powell M.P., Savolainen V.;
RT "Phylogeny and evolution of basilis and allies (Ocimeae, Labiatae)
based on three plastid DNA regions.";
RL Mol. Phylogenet. Evol. 31:277-299(2004).
DR EMBL; AJ505409; CAD45529.1; -.
DR GO; GO:0003735; F:Structural constituent of ribosome; IEA.
KW Ribosomal protein.
FT NON_TER 1 1
FT NON_TER 11 11
SQ SEQUENCE 11 AA; 1317 MW; D8D98CB3AB587866 CRC64;

Query Match 41.2%; Score 21; DB 2; Length 11;
Best Local Similarity 66.7%; Pred. No. 3.9e+03;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 YMIQGG 7
| | | | |
Db 1 YGFQGG 6

RESULT 5

CAD45529 CAD45529 PRELIMINARY; PRT; 11 AA.
AC CAD45529;
DT 14-MAR-2004 (TrEMBLrel. 27, Created)
DT 14-MAR-2004 (TrEMBLrel. 27, Last sequence update)
DT 14-MAR-2004 (TrEMBLrel. 27, Last annotation update)
DE Ribosomal protein (Fragment).
GN RPS16.
OS Plectranthus ciliatus.
OG Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
OC Lamiales; Lamiaceae; Nepetoideae; Ocimeae; Plectranthus.
OX NCBI_TaxID=204208;
RN [1]
RP SEQUENCE FROM N.A.
RA Paton A., Springate D.A., Sudde S., Otieno D., Grayer R., Harley M.M.,
RA Willis F., Simonds M.S.J., Powell M.P., Savolainen V.;
RT "Phylogeny and evolution of basilis and allies (Ocimeae, Labiatae)
based on three plastid DNA regions.";
RL Mol. Phylogenet. Evol. 31:277-299(2004).
DR EMBL; AJ505409; CAD45529.1; -.
KW Chloroplast; Ribosomal protein.
FT NON_TER 1 1
FT NON_TER 11 11
SQ SEQUENCE 11 AA; 1317 MW; D8D98CB3AB587866 CRC64;

Query Match 41.2%; Score 21; DB 2; Length 11;
Best Local Similarity 66.7%; Pred. No. 3.9e+03;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 YMIQGG 7
| | | | |
Db 1 YGFQGG 6

RESULT 6

Q70Y58 Q70Y58 PRELIMINARY; PRT; 12 AA.
AC Q70Y58;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Ribosomal protein (Fragment).
GN Name=rps16;

OS Clinopodium vulgare subsp. arundanum.
OG Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
OC lamids; Lamiales; Lamiaceae; Nepetoideae; Nepeteae; Clinopodium.
OX NCBI_TaxID=204223;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15019625;
RA Paton A., Springate D.A., Sudde S., Otieno D., Grayer R., Harley M.M.,
RA Willis F., Simonds M.S.J., Powell M.P., Savolainen V.;
RT "Phylogeny and evolution of basils and allies (Ocimeae, Labiatae)
RT based on three plastid DNA regions.";
RL Mol. Phylogenet. Evol. 31:277-299(2004).
DR EMBL; AJ505426; CAD45546.1; -.
DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
KW Ribosomal protein.
FT NON_TER 1 1
FT NON_TER 12 12
SQ SEQUENCE 12 AA; 1353 MW; D43D1B51AF587866 CRC64;

Query Match 41.2%; Score 21; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 4.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 IQGG 7
Db 4 IQGG 7

RESULT 7
CAD45546
ID CAD45546 PRELIMINARY; PRT; 12 AA.
AC CAD45546;
DT 14-MAR-2004 (TrEMBLrel. 27, Created)
DT 14-MAR-2004 (TrEMBLrel. 27, Last sequence update)
DT 14-MAR-2004 (TrEMBLrel. 27, Last annotation update)
DE Ribosomal protein (Fragment).
GN RPS16.
OS Clinopodium vulgare subsp. arundanum.
OG Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
OC lamids; Lamiales; Lamiaceae; Nepetoideae; Nepeteae; Clinopodium;
OC Clinopodium vulgare.
OX NCBI_TaxID=204223;
RN [1]
RP SEQUENCE FROM N.A.
RA Paton A., Springate D.A., Sudde S., Otieno D., Grayer R., Harley M.M.,
RA Willis F., Simonds M.S.J., Powell M.P., Savolainen V.;
RT "Phylogeny and evolution of basils and allies (Ocimeae, Labiatae)
RT based on three plastid DNA regions.";
RL Mol. Phylogenet. Evol. 31:277-299(2004).
DR EMBL; AJ505426; CAD45546.1; -.
DR Chloroplast; Ribosomal protein.
FT NON_TER 1 1
FT NON_TER 12 12
SQ SEQUENCE 12 AA; 1353 MW; D43D1B51AF587866 CRC64;

Query Match 41.2%; Score 21; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 4.3e+03;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 IQGG 7
Db 4 IQGG 7

RESULT 8
Q70Y88
ID Q70Y88 PRELIMINARY; PRT; 8 AA.
AC Q70Y88;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)

DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Ribosomal protein (Fragment).
GN Name=rps16;
OS Platostoma fimbriatum.
OG Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
OC lamids; Lamiales; Lamiaceae; Nepetoideae; Ocimeae; Platostoma.
OX NCBI_TaxID=204168;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15019625;
RA Paton A., Springate D.A., Sudde S., Otieno D., Grayer R., Harley M.M.,
RA Willis F., Simonds M.S.J., Powell M.P., Savolainen V.;
RT "Phylogeny and evolution of basils and allies (Ocimeae, Labiatae)
RT based on three plastid DNA regions.";
RL Mol. Phylogenet. Evol. 31:277-299(2004).
DR EMBL; AJ505368; CAD45489.1; -.
DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
KW Ribosomal protein.
FT NON_TER 1 1
FT NON_TER 8 8
SQ SEQUENCE 8 AA; 789 MW; 86786772D1BB4772 CRC64;

Query Match 39.2%; Score 20; DB 2; Length 8;
Best Local Similarity 50.0%; Pred. No. 1.8e+06;
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 YMIQGG 7
Db 3 YTVPGG 8

RESULT 9
CAD45489
ID CAD45489 PRELIMINARY; PRT; 8 AA.
AC CAD45489;
DT 14-MAR-2004 (TrEMBLrel. 27, Created)
DT 14-MAR-2004 (TrEMBLrel. 27, Last sequence update)
DT 14-MAR-2004 (TrEMBLrel. 27, Last annotation update)
DE Ribosomal protein (Fragment).
GN RPS16.
OS Platostoma fimbriatum.
OG Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
OC lamids; Lamiales; Lamiaceae; Nepetoideae; Ocimeae; Platostoma.
OX NCBI_TaxID=204168;
RN [1]
RP SEQUENCE FROM N.A.
RA Paton A., Springate D.A., Sudde S., Otieno D., Grayer R., Harley M.M.,
RA Willis F., Simonds M.S.J., Powell M.P., Savolainen V.;
RT "Phylogeny and evolution of basils and allies (Ocimeae, Labiatae)
RT based on three plastid DNA regions.";
RL Mol. Phylogenet. Evol. 31:277-299(2004).
DR EMBL; AJ505368; CAD45489.1; -.
DR Chloroplast; Ribosomal protein.
FT NON_TER 1 1
FT NON_TER 8 8
SQ SEQUENCE 8 AA; 789 MW; 86786772D1BB4772 CRC64;

Query Match 39.2%; Score 20; DB 2; Length 8;
Best Local Similarity 50.0%; Pred. No. 1.8e+06;
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 YMIQGG 7
Db 3 YTVPGG 8

RESULT 10
Q7M4C1

```
ID Q7M4C1 PRELIMINARY; PRT; 10 AA.
AC Q7M4C1;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Sperm-activating peptide (Tyr-2, Ser-3,5, Ala-8, Asp-10 SAP-I).
OS Echinometra mathaei (Rock boring urchin).
OC Eukaryota; Metazoa; Echinodermata; Eleutherozoa; Echinozoa;
OC Echinoidea; Euechinoidea; Echinacea; Eleutherozoa; Echinoida; Echinometridae;
OC Echinometra.
OX NCBI_TaxID=31178;
RN [1];
RP SEQUENCE.
RA Yoshino K.I., Kajiura H., Nomura K., Takao T., Shimonishi Y.,
RA Kurita M., Yamaguchi M., Suzuki N.;
RT "A halogenated amino acid-containing sperm activating peptide and its
RT related peptides isolated from the egg jelly of sea urchins,
RT Tripeustes gratilla, Pseudoboletia maculata, Strongylocentrotus
RT nudus, Echinometra mathaei and Heterocentrotus mamillatus.";
RL Comp. Biochem. Physiol. 94:739-751(1989).
DR PIR; E60589; E60589.
SQ SEQUENCE 10 AA; 925 MW; 8B9856D87865B735 CRC64;

Query Match 39.2%; Score 20; DB 2; Length 10;
Best Local Similarity 50.0%; Pred. No. 5.6e+03;
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 YMIQGG 7
Db 2 YSLSGG 7

RESULT 11
Q13865 PRELIMINARY; PRT; 12 AA.
AC Q13865;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Kinesin light chain.
GN Name=beta-kinesin;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1];
RP SEQUENCE FROM N.A.
RC TISSUE=Placenta;
RX MEDLINE=97101110; PubMed=8945637;
RA Chernajovsky Y., Brown A., Jones T.A.;
RT "Promoter first exon/intron characterization and chromosomal location
RT of the human light chain (beta) kinesin gene.";
RL DNA Cell Biol. 15:965-974(1996).
DR EMBL; X69658; CAA49349.1; -.
DR PIR; S43170; S43170.
SQ SEQUENCE 12 AA; 1274 MW; 3FB8D34FE165A5B8 CRC64;

Query Match 39.2%; Score 20; DB 2; Length 12;
Best Local Similarity 60.0%; Pred. No. 6.7e+03;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 MIQGG 7
Db 1 MLRGG 5

RESULT 12
Q7M0A7 PRELIMINARY; PRT; 12 AA.
AC Q7M0A7;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
```

```
DE Glycoprotein hormones alpha chain (Fragment).
OS Cricetidae sp. (Hamster).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Cricetinae.
OX NCBI_TaxID=36483;
RN [1];
RP SEQUENCE.
RX MEDLINE=83003498; PubMed=6889489;
RA Glenn S.D., Nahm H.S., Greenwald G.S., Ward D.N.;
RT "Isolation and characterization of hamster luteinizing hormone.";
RL Endocrinology 111:1263-1269(1982).
DR PIR; A61309; A61309.
FT NON_TER 1
FT NON_TER 12 12
SQ SEQUENCE 12 AA; 1280 MW; 94A63728AA81A9CA CRC64;

Query Match 39.2%; Score 20; DB 2; Length 12;
Best Local Similarity 50.0%; Pred. No. 6.7e+03;
Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DYMIQG 6
Db 5 DFTMQG 10

RESULT 13
O55184 PRELIMINARY; PRT; 7 AA.
AC O55184;
DT 01-JUN-1998 (TrEMBLrel. 06, Created)
DT 01-JUN-1998 (TrEMBLrel. 06, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Orphan receptor TR4-NS (Fragment).
GN Name=TR4;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
OX NCBI_TaxID=10116;
RN [1];
RP SEQUENCE FROM N.A.
RC STRAIN=Sprague-Dawley;
RX MEDLINE=96198747; PubMed=8612486;
RA Yoshikawa T., Makino S., Gao X.M., Xing G.Q., Chuang D.M.,
RA Detera-Wadleigh S.D.;
RT "Splice variants of rat TR4 orphan receptor: differential expression
RT of novel sequences in the 5'-untranslated region and C-terminal
RT domain.";
RL Endocrinology 137:1562-1571(1996).
RN [2];
RP SEQUENCE FROM N.A.
RC STRAIN=Sprague-Dawley;
RX MEDLINE=96299786; PubMed=86611150;
RA Yoshikawa T., Dupont B.R., Leach R.J., Detera-Wadleigh S.D.;
RT "New variants of the human and rat nuclear hormone receptor, TR4:
RT expression and chromosomal localization of the human gene.";
RL Genomics 35:361-366(1996).
DR EMBL; U59454; AAB91433.1; -.
DR GO; GO:0004872; F:receptor activity; IEA.
KW Receptor.
FT NON_TER 1 1
SQ SEQUENCE 7 AA; 663 MW; 6DDAA8787EB05350 CRC64;

Query Match 37.3%; Score 19; DB 2; Length 7;
Best Local Similarity 80.0%; Pred. No. 1.8e+06;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 IQGGD 8
Db 2 ICGGD 6

RESULT 14
Q7M4X7
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ID	Q7M4X7	PRELIMINARY;	PRT;	10 AA.
AC	Q7M4X7;			
DT	01-MAR-2004 (TrEMBLrel. 26, Created)			
DT	01-MAR-2004 (TrEMBLrel. 26, Last sequence update)			
DT	01-MAR-2004 (TrEMBLrel. 26, Last annotation update)			
DE	Triose-phosphate isomerase (EC 5.3.1.1) (Fragment).			
OS	Fusarium sporotrichioides.			
OC	Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;			
OC	Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Fusarium.			
OX	NCBI_TaxID=5514;			
RN	[1]			
RP	SEQUENCE.			
RA	Fukaya N., Chow L.P., Sugura Y., Tsugita A., Ueno Y., Tabuchi K.;			
RL	Submitted (MAY-1994) to the PIR data bank.			
DR	PIR; P0165; P0165.			
DR	GO; GO:0004807; F:triose-phosphate isomerase activity; IEA.			
FT	NON_TER 1			
FT	NON_TER 10			
SQ	SEQUENCE 10 AA; 1142 MW; 590E4D7862C9C3 CRC64;			
Query Match	37.3%;	Score 19;	DB 2;	Length 10;
Best Local Similarity	75.0%;	Pred. No. 8.8e+03;		
Matches	3;	Conservative 1;	Mismatches 0;	Indels 0; Gaps 0;
QY	6 GGDF 9			
Db				
	7 GGNF 10			
RESULT 15				
Q8UVW2				
ID	Q8UVW2	PRELIMINARY;	PRT;	10 AA.
AC	Q8UVW2;			
DT	01-MAR-2002 (TrEMBLrel. 20, Created)			
DT	01-MAR-2002 (TrEMBLrel. 20, Last sequence update)			
DT	01-JUN-2003 (TrEMBLrel. 24, Last annotation update)			
DE	AMPA receptor subunit 2 alpha (Fragment).			
GN	Name=GluR2a;			
OS	Oreochromis mossambicus (Mozambique tilapia) (Tilapia mossambica).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;			
OC	Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Labroidae;			
OC	Cichlidae; Oreochromis.			
OX	NCBI_TaxID=8127;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RX	MEDLINE=21617183; PubMed=11741603;			
RA	Kung S.-S., Chen Y.-C., Lin W.-H., Chen C.-C., Chow W.-Y.;			
RT	"Q/R RNA editing of the AMPA receptor subunit 2 (GRIA2) transcript			
RT	evolves no later than the appearance of cartilaginous fishes."			
RL	FEBS Lett. 509:277-281(2001).			
DR	EMBL; AF350050; AAL57192.1; -.			
DR	GO; GO:0004872; F:receptor activity; IEA.			
KW	Receptor.			
FT	NON_TER 1			
FT	NON_TER 10			
SQ	SEQUENCE 10 AA; 1153 MW; 721A6E5AAEB866C4 CRC64;			
Query Match	37.3%;	Score 19;	DB 2;	Length 10;
Best Local Similarity	57.1%;	Pred. No. 8.8e+03;		
Matches	4;	Conservative 1;	Mismatches 2;	Indels 0; Gaps 0;
QY	2 YMIQGD 8			
Db				
	1 FMRQGD 7			

